## RPGMapMaker User Manual

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## Introduction

#### **Presentation**

« RPGMapMaker » is a tool for drawing maps with polygonal grids. This kind of maps is used in Role Playing Games, but of course can be designed for any other purposes.

In addition to having most of the capabilities of a real painting program (such as lines, rectangles, ovals and rounded rectangles, drawing and filling with color and pattern, text, rubber, pipettes tools, etc.), « RPGMapMaker » has also unique features that greatly simplify the building of this kind of map, such as:

- Various kinds of grids. You can create a grid map made of hexes (well suited for world, region or village maps), or squares (well suited for dungeon maps) or lozenges (well suited for pseudo-3D castle and dungeon maps).
- Ten layers static maps. Four pre-allocated layers (one for the grid, one for drawing, one for terrain tiles and one for text and lines) and six extra layers allocated on demand (two for drawing, two for terrain tiles, and two for text and lines). For example you can change a polygon color without losing the terrain that lies on top of it, build a map for the DM eyes only, and a map for his players, etc.
- Interactive maps. Static maps can be linked between each other like in a hypertext document. This allows you for example designing a continent, then zooming-in to a country, then zooming-in to a city, then zooming-in to a house, then zooming-in to the cellar of the house, then zooming-in to the dungeon beneath the house, etc. Of course, you can also zoom-out.
- Links to external files. You can attach files (for example notes, comments, etc.) to a static map. The files must be stored in a subfolder within the map folder.
- Layers managers. This feature allows you allocating
  and freeing the additional layers, clearing layers, copying a layer into another layer, choosing which layer is
  visible and which is not, selecting which layer is the
  active one (an active layer is a layer where drawing occurs), and choosing which layer will be involved in a
  selection.
- Various dimension units. You can specify the map dimensions in either cm or m or km. Alternatively, you may prefer to use the ft, ya or mi dimension units.
- **Grid polygon color filling in just two clicks** (three, if using patterns). One selects the color and one selects the filling area.
- Predefined terrains tiles. « RPGMapMaker » comes with several predefined libraries for building regions, villages, castles and dungeons. They are available in either black and white or in colors and their tile sizes range from 12 by 12 to 40 by 40 pixels, in 4 pixels in-

- crements (i.e. 12 x 12, 16 x 16, 20 x 20, 24 x 24, 28 x 28, 32 x 32, 36 x 36, and 40 x 40).
- **Terrains editor**. If you do not like the terrain tiles and wish to modify them, the terrain editor goes here for that purpose. Of course, if you are talented, you can also create terrain tiles from thin air!
- **Terrain Organizer**. This tool allows you quickly reorganizing a terrain library, transferring tiles between libraries and importing tiles.
- Random terrain generator. This tool allows you generating random terrains made of up to five different "regions" (for example water, mountain, plain, desert, etc.) and aligned on the grid polygons.
- Random maze generator. This tool allows you generating random mazes, caverns and dungeons. For dungeons, rooms' number can be generated.
- **Fractal terrain generator**. This tool allows you generating realistic terrains using physical models. Three different algorithms are available for generating worlds, archipelagos and islands.
- Line with arrows of various shapes. In addition, you can add a distance between the ends of a line. The distance is automatically adjusted when you change the map dimension units.
- **Drawing contexts**. You can memorize up to 40 foreground colors, background colors and patterns for further utilization.
- **Textures**. This pallet allows you using the Color Filling and Grid Polygon Color Filling tools with textures (instead of the current fill foreground color, fill background color and fill pattern).
- Selective drag or clear. As the map is made of several layers, you can specify which map layer(s) you want to drag or clear.
- Intelligent copy and paste. As the map is made of several layers, you can specify which active layer (or a portion of it) you want to transfer into the clipboard and on which active layer you want to paste the clipboard contents.
- Intelligent external drop. You can choose the portion of an external drop to insert into the chosen active layer.
- **Multiple levels of Undo**. By default, the application is configured with 16 levels of undo, but if you need more levels, this can be changed in the application preferences. The terrain editor has also several levels of undo as well as the clipboard window.
- Models. Using a special script, you can create maps with a predefined appearance for the grid layer (a grid with a legend for example). In addition, you can further modify the script to alter the grid layer appearance.
- Layer Scripts. You can attach a script to a layer. This script contains directives that allow you drawing into the layer as if you were using drawing tools.

- **Text Styles**. You can memorize an infinite number of style contexts to speed up text operations.
- **Markers**. A marker is an icon with a text. Even after creation, you can move it and change its appearance.
- **Markers Manager**. Allows you manipulating markers without having to ctrl-click on the map.

## **System requirements**

- PowerPC or Intel-based Macintosh.
- · Thousands of Colors.
- Mac OS X 10.2.8 or higher.
- About 50 Mb of disk space.

#### **How to install**

Forget that! You have a Macintosh, don't you? ;-) Just drag the RPGMapMakerX application anywhere you want.

#### **Documentation**

RPGMapMaker comes with several manuals in pdf format:

- User Manual (this present manual)
- Menus Manual
- Scripting Manual

## **Registration information**

«RPGMapMaker» is shareware, which means if you use it, you have to pay for it. You may try it out for a couple of weeks, but if you like it and decide to keep it, you are expected to register this software and pay the shareware fee of US\$ 25.

Note that the functionalities will always be there (to the notable exception of models and extra textures), but a nagging **about** dialog will constantly remind you to pay for it. When you register you will receive a code that will permanently remove the « nag Register! Dialog » and you get free technical support, too.

The easiest way to register it to register online.

## **How to register**

To register online please point your browser to:

#### http://order.kagi.com/?3CX

A secure server is available for submitting your payment information (VISA, MasterCard, American Express and First Virtual available) safely.

Or simply put US\$ 37 in an envelope, note your name, address and the program you are paying for and send this to:

Kagi Shareware 1442-A Walnut Street #392-3CX Berkeley, California 94709-1405 USA

#### How to contact the author

Please send your comments, suggestions and bug reports to one of the addresses below. I will try to answer them as soon as possible!

Send e-mail to: **FMU@kagi.com** 

Write a letter to: « François Menneteau. 5 rue des Vignoux. 31600 Muret. France »

## Where to download the latest version

Please take a look at <a href="http://fmteau.perso.neuf.fr/rpgmapmaker/rpgmapmaker.htm">http://fmteau.perso.neuf.fr/rpgmapmaker/rpgmapmaker.htm</a>. There you will find the version number of the latest release and links to download it.

## **Warranty & License**

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## RPGMapMaker maps

A RPGMapMaker map is a mixture of graphical data (layers, see below) and data information (kind of map, map dimensions, etc.) As a direct consequence, the greater the map dimensions and the greater the number of allocated layers the more memory and disk space it will use.

## **Notion of Layers**

A map in « RPGMapMaker » is at least a four-layer map (see image below). Three layers for "drawing" (the **Drw 0**, **Trn 0** and **Txt 0** layers) and one layer that represents the grid (the **Grid** layer) and that cannot be modified. In addition to these four predefined layers, it is possible to allocate six additional layers (the **Drw 1**, **Drw 2**, **Trn 1**, **Trn 2**, **Txt 1** and **Txt 2** layers).

Txt 0 Layer

Trn 0 Layer

Drw 0 Layer

The **Drw** layer (abbreviation for **Drawing**) is the layer where drawing takes place i.e. where all the standard painting tools (such as pen, rectangles, etc.) work BY DE-FAULT; The **Trn** layer (abbreviation for **Terrain**) is the layer where terrain tiles drawing takes place; The **Txt** layer (abbreviation for **Text**) is the layer where text and \*\* line \*\* drawings work BY DEFAULT.

Please note that though you cannot edit the **Grid** layer, it has an important purpose: it delimits where the *Grid Polygon Color Filling* and *Tile Erasing* tools are effective (see § "**Drawing Tools Area**" for more information).

The layers order is very important: it defines what is visible and what is not. Everything that is drawn on the Drawing layer is hidden by everything that is drawn on the upper layers (Grid, Terrain and Text). Using the same logic, terrain tiles are hidden by text and text by nothing. In

fact, this is a little more complicated than that, because the white color acts as a transparent color. For example if you put a black & white terrain tile on top of a red rectangle of the same size then the terrain tile appears as a black & red terrain tile.

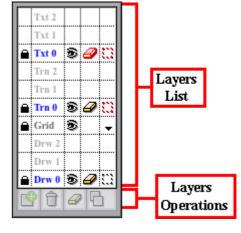
The layers order has been chosen carefully: The **Grid** Layer is on top of the **Drw** Layer because otherwise you would lose all the interest of having a grid; The **Trn** Layer is on top of the **Grid** Layer because this ensures that the non-white bits of a terrain tile are always visible, thus preventing from misinterpretation. At last, the **Txt** Layer is on top of all the layers because you would not be happy to have some part of your texts hidden by bits from the **Grid**, the **Trn** or the **Drw** layer, which would prevent you from recognizing its meaning!

Surprisingly, Lines are drawn (by default) on the **Txt** Layer. Why, you may ask? Well, simply because this avoid the various line extremities (arrows, circles, etc.) and dimensions to be hidden by bits from other layers.

Please note that what we have described here is the \*\* default behavior \*\* (i.e. **Grid** layer on top of the **Drw** Layer, drawing tools on the **Drw** layer, text tool on the **Txt** layer, etc.). We'll see below this behavior can be changed.

## **Managing Layers**

Managing layers is done via a listbox and several buttons located in the *Main Window* toolbar (vertical part): the **Layers Manager**.



#### **Definitions**

#### Layer state

A layer can be in the following states:

• **Pre-allocated**. A *pre-allocated* layer is a layer that is already allocated when you create a map. There are four of these layers: the **Drw 0**, the **Trn 0**, the **Txt 0** and the **Grid** layer. All the other layers cannot by *pre-allocated*.

- Not Allocated/Allocated. A layer that does not exist at map creation is *not allocated*. To *allocate* it, you must use a button in the *Layers Operations* area. The layers that can be allocated/freed are: the **Drw 1**, the **Drw 2**, the **Trn 1**, the **Trn 2**, the **Txt 1**, and the **Txt 2** layer.
- **Not Locked/Locked**. A layer that is *locked* cannot be editable i.e. you cannot draw onto it. At present only the **Grid** layer is a locked one.

The layer state affects the kind of operations that can be performed on a layer (see below).

#### **Operations on Layers**

There are four possible operations:

- Create a layer. A *pre-allocated* or already *allocated* layer cannot be allocated (again).
- **Delete a layer**. A *pre-allocated* or already deleted layer cannot be deleted (again). In addition, a *locked* layer cannot be deleted.
- Make a layer Active/Inactive. An active layer is a layer upon which drawing occurs. Only a non-locked, allocated or a non-locked, pre-allocated layer can be active. In addition, you can have only one active drawing layer, one active terrain layer and one active text layer at a time. This means for example that if you allocate the **Drw 1** layer, you will have to decide which of the two drawing layers is the active one. Of course, you can change at any time, which layer is active and which layer is not. Please note that this notion has no meaning for a locked layer.
- Make a layer Visible/Invisible. Being an active layer is in fact not sufficient to allow drawing. This layer must also be visible. In addition, playing with the visibility of the other layers allows you printing (or copying) a map with only partial information. For example, you will print (or copy) a map with hidden text layers for your players and you will print (or copy) a full map for your own use.

#### **Layers Manager**

#### **Layers List:**

This area contains the name of the various layers. The layers appear in the order they are stacked, i.e. the Drw 0 layer is at the bottom of the layers stack and the Txt 1 layer is at the top, the Drw 1 layer is on top of the Drw 0 layer, etc. As for the Grid layer, its position is variable (the default is above the drawing layers).

In addition, each layer name has a color that reflects its state (allocated/pre-allocated or not, etc.) If a layer is allocated/pre-allocated, its name is displayed in black. If it is active, it is displayed in blue. Otherwise it is light gray. Because it is different from the other layers, the Grid layer is displayed in dark gray.

At last, for each layer, its *Visibility* status is displayed (the eye icon) as well as whether or not it belongs to the *Selection Area of Effect* and the *Rubber Area of Effect*.

If the *Selection* icon is black the layer will be dragged when using the *Selection* tool (and it will be "transformed" when using the *effects* menu). If it is in red, the layer will not be dragged. If the *Rubber* icon is black (and orange) the layer will be erased when using the *Rubber* tool. If it is in red, the layer will not be erased.

#### **Layers Operations:**

In that area, there are four buttons:

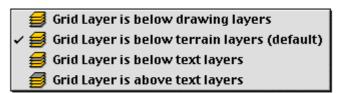
- One for creating a layer (the [ button),
- One for deleting a layer (the 📋 button)
- One for copying the contents of a layer into another layer (the button), and
- One to clear the contents of a layer (the button).

Clicking onto any one of these buttons brings a dialog box that asks you if you really want to perform this operation. If you press Ok, the operation completes otherwise it is canceled. Also, the dialog warns you that these operations are not undoable.

#### **How to use:**

In order to apply an operation on a layer, you must first select this layer. This is simply done by clicking on its name in the *Layers List*.

- To copy a layer onto another layer, you must select a second layer. This is simply done by *command clicking* on its name in the *Layers List*. In that case, the button changes its appearance:
  - for an upward copy (e.g.  $Trn \rightarrow Txt$ ), or
  - for a downward copy (e.g.  $Trn \rightarrow Drw$ ).
- To make a layer active, double-click on its name.
- To turn On or Off a layer visibility, simply click on its *eye* icon.
- To turn On or Off belonging to the **Selection Area of Effect**, simply click on the *Selection* icon.
- To turn On or Off belonging to the **Rubber Area** of **Effect**, simply click on the *Rubber* icon.
- To change the *Grid Layer* position, simply click on the *downward black arrow* icon. This brings a popup menu that allows you selecting its position relative to the other layers: below the drawing layers, below the terrain layers (default), below the text layers or above the text layer.

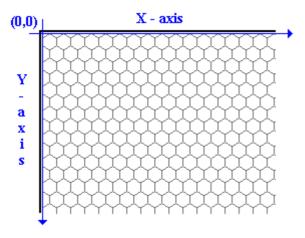


## **Coordinates System**

In « RPGMapMaker », the dimensions or map locations are expressed as a (x, y) couple where the x part identifies a horizontal coordinate along the X-axis, and the y part identifies a vertical coordinates along the Y-axis.

The coordinate origin (0,0) is located at the top left corner of the map grid, horizontal coordinates increase as you move from left to right and vertical coordinates increase as you move from top to bottom.

As for the X-axis and Y-axis **units** (m, km, mi, etc.), they depend on the unit you choose when you create the map. For more information see in the **MenusManual.pdf** documentation, the "**New...**" menu item in the "**Menu: File**" menu.



<u>Note</u>: If you are not satisfied with the coordinates units, you can always change it in the *Grid Information* dialog. For more information about this dialog, see in the **Menus-Manual.pdf** documentation, the "**Grid Information...**" menu item in the "**Menu: Edit**" menu.

**Zoom-in link**. This kind of link allows you establishing a connection between an object grid (hex, square or lozenge) and one static map. Command clicking on this object closes the current static map (the father map) and loads the associated static map (the son map). This link is called zoom-in because it allows you building a hierarchy of links and each time you click on this kind of link, you travel downward (one level at a time) into the hierarchy.

Please note that you can define as many zoom-in links as the number of polygons in the map grid. For example, if you have created a 10 by 20 hexes grid, you can have a maximum of 200 zoom-in links. Of course, several polygons can point to the same static map.

- Zoom-out link. This link allows you going directly to
  a parent in the hierarchy of links i.e. it allows you
  traveling upward into the hierarchy. This zoom-out
  link is also called the home link and as such is identified by an icon representing a house (in the *Interactive Map Area*).
- Navigation link. A navigation link allows you traveling horizontally into the links hierarchy. They are useful when for example you design a huge continent that is split into several pieces.
- There are in fact four navigation links. One that allows you going to the **North** of the current static map, one that allows you going the **South**, one that allows you going the **West** and one that allows you going to the **East**. These links are identified by large "arrow" icons in the *Interactive Map Area* (up arrow for North, down arrow for South, left arrow for West and right arrow for East).

The following picture gives you an example of an interact-ive map hierarchy:

Fast

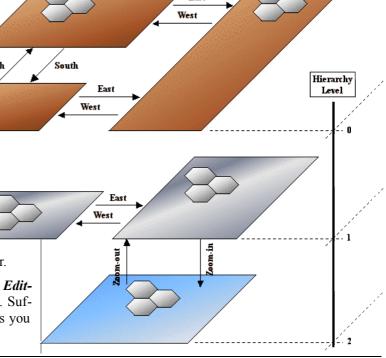
## **Static and Interactive Maps**

As you already know, « RPGMapMaker » let you make layered maps that can be moved around, looked at and printed. We call this kind of map a static map. Now, let's introduce another kind of map. Imagine a process in which static maps are linked together. By clicking on several maps you can go from one map to another, like in a hypertext document. We call this kind of map an Interactive map. As this map must be easily moved around, all the static maps that made this map must be located into the same folder.

To sum up, a **static map** is a multi layer map stored into a single file, and an **Interactive map** is a collec-

tion of static maps (files) located into the same folder.

To build an **Interactive map**, you click on the *Links Edit-or* button (see § "Bars Area" for more information). Suffice to say here this button open a drawer that allows you creating three kinds of links:



#### **External Links**

Sometimes, you want to "attach" some additional information to a map. This can be some simple text files for storing comments or notes about a specific part of the map, or complex documents (for example in MS Word or Acrobat format) containing scenarios or similar information, or even graphical files that containing fine arts, scanned images, etc.

In effect, you use a RPGMapMaker map as a launcher of files - external to RPGMapMaker, hence the name **External Links** i.e. a RPGMapMaker map can remember links to external files.

Though RPGMapMaker can remember any kind of external links, there is one limitation: all the files must be located into a subfolder within the map folder (the same subfolder that will hold the maps that make up an interactive map). In fact, as you can also store aliases to files, this limitation is not too restrictive. Please note that having all the files in one place allows you easily moving them around.

The name of the subfolder must be chosen preferably when you create your map but it can be specified/changed later on through the **Map Information** dialog.

## Interface

In this chapter, we describe briefly the interface you get when you launch « RPGMapMaker », when you open/create the first map and when you close the last map.

At startup

When you launch « RPGMapMaker », a non-discardable floating window appears (see image below).



This pallet is made of several bevel buttons. Aside for the first one (which purpose will be explained later), all the other buttons allows you showing or hiding its associated (floating) window. But as you can see, only one button is enabled meaning only one (floating) window can be shown or hidden.

This pallet is basically the equivalent of the « **Windows** » menu item i.e. clicking on a bevel button but the first one is similar to selecting the corresponding sub-menu in the « **Windows** » menu.

<u>Note</u>: In the remaining of this electronic document, this pallet will be simply called the **Windows Pallet**.

When you click on the only enabled bevel button, a floating window appears (see image below). In the remaining of this document, this floating window will be called the **Terrains Pallet**.

#### **The Terrains Pallet**

In the image above, you have probably noticed red numbers (from one to two) enclosed in a red circle. Each number symbolizes a functionality (or purpose) or a group of functionalities:

- (1): Terrains Area.
- (2): Toolbar Area.

These functionalities are all described in great details in the next pages of this manual.

Please note that as tiles can be of size 24 to 40 pixels (through tiles size remains the same within a terrain library), the **Terrains Pallet** adjust its appearance.

## After the first map is loaded

When the first map is created or opened:

- All the **Windows Pallet** buttons are enabled,
- A discardable-resizeable window appears (that will be called the **Map Window** in the remaining of this electronic document),
- The **Terrains Pallet** is shown (if not already visible),
- Another pallet is displayed too (this pallet will be called the **Tools Pallet** in the remaining of this electronic document).

Thus, the **Windows Pallet** has the following appearance (three buttons are selected because three windows are visible):



We know that the **Windows Pallet** allows you showing or hiding (floating) windows. We have already identified two such windows: the **Terrains Pallet**, and the **Tools Pallet**. Let's now describe the purpose of the remaining buttons.

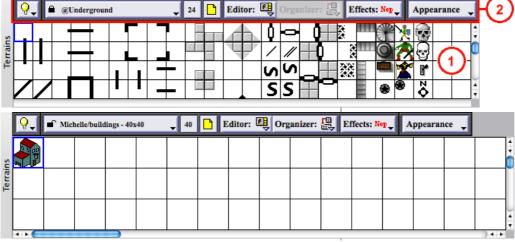
#### The Windows Pallet



In the previous image, you have probably noticed red numbers (from one to two) enclosed in a red circle. Each number points to a single button or a group of buttons.

(1): Visibility Control button. When you click on this button, a popup menu appears. It allows you quickly showing

or hiding either a group of three floating windows or all floating windows.



Hide all Windows
Hide Windows from the first group of buttons
Hide Windows from the second group of buttons
Show all Windows
Show Windows from the first group of buttons
Show Windows from the second group of buttons

**(2)**: *Pallet* buttons. There are seven buttons in two groups of buttons. From left to right:

- **1. Tools Pallet** button. It allows you showing or hiding the **Tools Pallet**.
- **2. Terrains Pallet** button. It allows you showing or hiding the **Terrains Pallet**.
- 3. Inks & Styles Pallet button. It allows you showing or hiding the Inks & Styles Pallet.
- **4. Textures Pallet** button. It allows you showing or hiding the Textures Pallet.
- Random Terrain Generator Pallet button. It allows you showing or hiding the Random Terrain Generator Pallet.
- Random Maze Generator Pallet button. It allows you showing or hiding the Random Maze Generator Pallet.
- **3. Fractal Generator Pallet** button. It allows you showing or hiding the **Fractal Generator Pallet**.

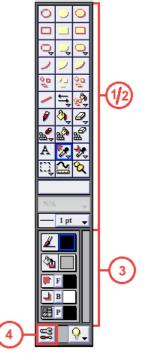
Each number symbolizes a functionality (or purpose) or a group of functionalities:

- (1): Status bar.
- (2): Tools Access Area.
- (3): Zoom Control Area.
- (4): Map Area.
- (5): Grid Area.
- (6): Toolbar.
- (7): Window Quick Selector.

These functionalities are all described in great details in this manual.

#### **The Tools Pallet**

In the image below, you have probably noticed red numbers (from two to five) enclosed in a red circle.

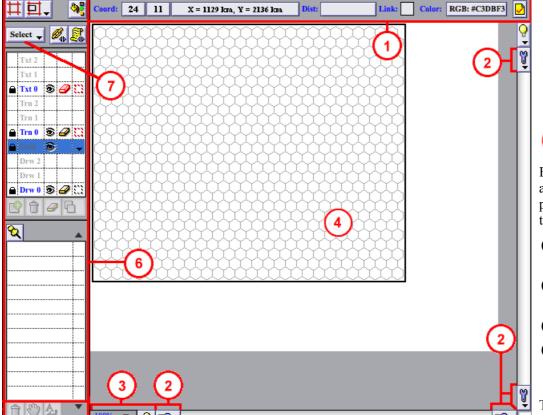


Each number symbolizes a functionality (or purpose) or a group of functionalities:

- (1): Drawing Tools Area.
- (2): Drawing Tools Parameters Area.
- (3): Inks Area.
- (4): Drawing Tools
  Parameters Selector.

These functionalities are all described in great details in the next pages of

The Map Window



In the below image, you have probably noticed red numbers (from one to six) enclosed in a red circle.

this manual.

## After the last map is closed

When you close a map, the **Windows Pallet** reverts to the same aspect as when you launched « RPGMapMaker » i.e. all the buttons are disabled but the **Terrains Pallet** one (see image below).

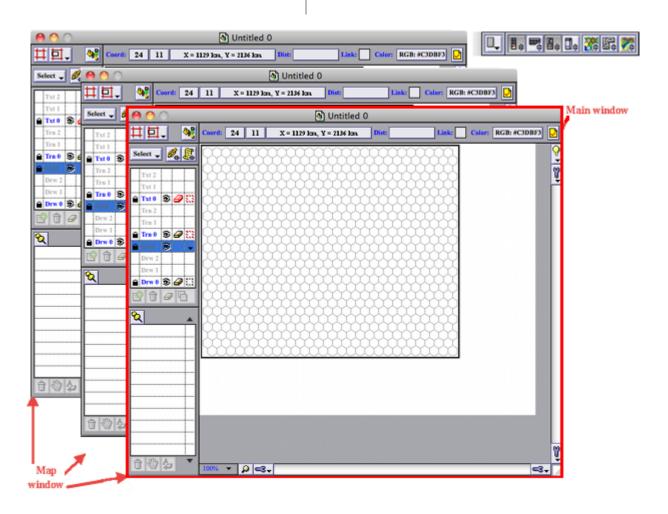
The only difference lies in the fact that if the **Terrains Pallet** was visible before you opened/created a map, then the pallet remains visible after the map is closed.



# When there are more than one map opened

In this situation, the interface of the **Windows Pallet** is unchanged and there are as many *Map Windows* as the number of opened/created maps (see example below). Please note that you can open/create a maximum of 10 *Map Windows*.

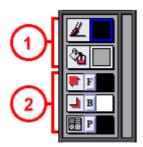
In the remaining of this document, the frontmost *Map Window* (i.e. the window where drawing occurs) is called the *Main Window*. Of course, when there is only one window, the *Map Window* and the *Main Window* are identical.



## **The Tools Pallet**

### **Inks Area**

The **Inks Area** allows you selecting the current foreground and background colors as well as the pattern that are used by various drawing tools.



The **Inks Area** is in fact made of two areas:

- (1) Ink Mode Selection i.e. Pen/Text/Frame or Fill Mode Selection.
- (2) Colors and Pattern Selection.

#### Frame or Fill Mode Selection

In « RPGMapMaker », some objects can potentially be drawn with two kinds of colors and pattern: ones that apply to its border and ones that apply to its contents.

The colors and pattern that apply to its border are called the *frame* colors and pattern while the colors and pattern that apply to its contents are called the *Fill* colors and pattern.

The *frame* colors and pattern are also used when drawing with the following tools: **pen**, **line**, and **text**. As a consequence, these colors and pattern are more accurately called the *Pen/Text/Frame* colors and pattern.

In conclusion, as some tools use either the *Pen/Text/Frame* colors and patterns or the *Fill* colors and patterns or both, we need to differentiate them. Thus, we introduce the notion of *Ink Mode*.

To sum up, clicking on the top area selects the *Pen/Text/Frame* mode, while clicking on the bottom area selects the *Fill* mode.

Two colors and one pattern are associated with each mode.

Thus, for the *Pen/Text/Frame* mode we have the *pen/text/frame foreground color*, the *pen/text/frame back-ground color* and the *pen/text/frame pattern*.

Similarly, for the *Fill* mode we have the *fill foreground* color, the *fill background color* and the *fill pattern*.

While a mode is current, any change you made to the current foreground color, current background color, current or pattern applies to that mode only.

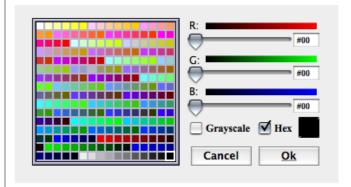
#### **Colors and Pattern Selection**

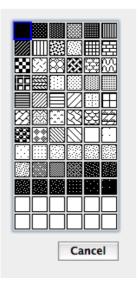
These three areas allow you changing the current mode foreground color (**F**), background color (**B**) and pattern (**P**).

The current (foreground color, background color, and pattern) triplet is also called the *Current Drawing Context*.

Clicking on F or B button brings the Color Picker dialog.

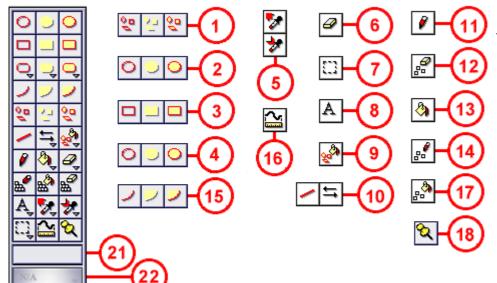
Clicking on the **P** button brings the **Pattern Picker** dialog.





## **Drawing Tools Area**

The **Drawing Tools Area** contains the following « drawing tools » (for clarity purpose, the small downward arrows have been erased):



- allows you drawing a polygon *frame*; the second tool (the one in the middle of the row) allows you drawing a polygon contents (*fill*); the third tool (the one at the right of the row) allows you drawing both polygon frame and contents (*fill* + *frame*).
- Frame. The polygon frame is drawn using the current pen/txt/frame foreground color, pen/txt/frame background color, and frame pattern and pen size.
- Fill. The polygon content is drawn using the current fill foreground color, fill background color and fill pattern.
- **Fill + frame**. The polygon frame is drawn using the current pen/txt/frame foreground color, pen/txt/frame background color, frame pattern and pen size, and the polygon contents is drawn using the current fill foreground color, fill background color and fill pattern.

To change the pen fore and back colors or the pen pattern, use either the *Inks Area* (see § "Inks Area" for more information) or the *Inks & Styles Pallet* (see § "The Inks & Styles Pallet" for more information). To change the pen size, simply use the *Pen Size* popup menu.

Once the desired tool is selected, simply click anywhere on the map and a polygon appears. The polygon has exactly the same size as the Grid layer polygons. Note that if the **Align On Terrain Grid** checkbox is on, the polygon is automatically centered on a square of the *Terrain Grid*.

The main purpose of the *Grid Polygon* tools is to allow you quickly building a legend for your map (see example below).

- (1) Grid Polygon.
- (2) *Oval*.
- (3) Rectangle.
- (4) Rounded Rectangle.
- (5) Pipettes.
- (6) Rubber.
- (7) Selection.
- (8) *Text*.
- (9) Grid Polygon Color Filling.
- (10) Line and Arrow.
- (11) Pen.
- (12) Terrain Tile Erasing.
- (13) Color Filling.
- (14) Terrain Tile Drawing.
- (15) Arc.
- (16) Distance Measuring.
- (17) Terrain Filling.
- (18) *Marker*.
- (20) Pen Size.
- (21) Keyboard indicator.
- (22) Layer selector.

## **Grid Polygon**

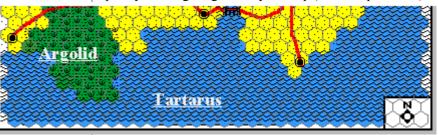
Selecting one of the *Grid Polygon* tools allows you drawing (on the **active drawing layer**) the corresponding polygon i.e. a hex (respectively a square, a lozenge) if your map is a hex-based (respectively square-based, lozenge-based) Grid. The first tool (the one at the left of the row)

Legend:

Deep sea

Swamp

Desert



#### **Oval**

Selecting one of the *Oval* tools allows you drawing (on the **active Drawing layer**) an oval (or a circle). These three tools allow you drawing either an oval frame, or an oval contents or both.

To draw an oval, click anywhere on the map then move the mouse (without releasing it) to another location on the map. Once you are satisfied with the object size, release the mouse. If you want to draw circles instead of ovals, press the *shift* key while dragging the mouse. If you want to draw ovals from the center, press the *option* key while dragging the mouse.

#### Rectangle

Selecting the *Rectangle* tools allows you drawing (on the **active Drawing layer**) a rectangle (or a square). These three tools allow you drawing either a rectangle frame, or a rectangle contents or both.

To draw a rectangle, click anywhere on the map then move the mouse (without releasing it) to another location on the map. Once you are satisfied with the object size, release the mouse. If you want to draw squares instead of rectangles, press the *shift* key while dragging the mouse. If you want to draw rectangles from the center, press the *option* key while dragging the mouse.

#### **Rounded Rectangle**

Selecting the *Rounded Rectangle* tools allows you drawing (on the **active Drawing layer**) a rounded rectangle (or a rounded square). These three tools allow you drawing either a rounded rectangle frame, or a rounded rectangle contents or both.

By default, the rounded corner is 5-pixel width and 5-pixel height. The *Rounded Rectangle Information* tool allows you changing these parameters (see § "**Drawing Tools Parameters Area**" for more information).

To draw a rounded rectangle, click anywhere on the map then move the mouse (without releasing it) to another location on the map. Once you are satisfied with the object size, release the mouse. If you want to draw rounded squares instead of rounded rectangles, press the *shift* key while dragging the mouse. If you want to draw rounded rectangles from the center, press the *option* key while dragging the mouse.

#### **Pipettes**

These tools are useful when you play with nearly identical colors (shades of gray for example) and want to be sure you always use the same color for the same kind of object.

There are two *Pipettes* tools:

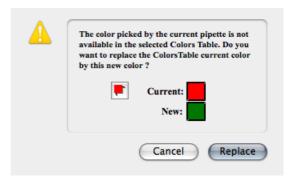
- Foreground Pipette. This tool (the top most one in the column) allows you updating the current *Ink Mode* foreground color.
- **Background Pipette**. This tool allows you updating the current *Ink Mode* background color.

When you select one of these tools, the cursor turns into a pipette. If you then click anywhere on the map, the corresponding color in the Tools Pallet is replaced by the corresponding color.

In addition, if, in the **Drawing Tools Parameters** window, the "**Do not update the Colors Table**" checkbox is unchecked, then the corresponding Colors Table in the **Inks & Styles Pallet** is also updated.

If the color below the mouse location cannot be found in the selected *Colors Table*, a dialog appears (see on next column) asking if you want to replace the current color by the new color. The dialog is kind enough to remain you on which *Colors Table* the operation will take place.

Example: The Foreground Colors Table current color is red, the color found below the mouse location is dark green and this color is not available in the Colors Table.



#### Rubber

The *Rubber* tool allows you erasing portions of your map. By default, the *Rubber Area of Effect* is a one-polygon-width circle that clears the drawing and terrain active layers.

To change the Rubber Area of Effect, see Layer States Selectors in § "Bars Area".

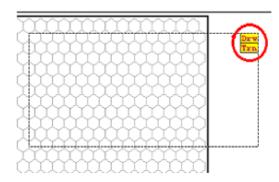
To erase your map, move the mouse onto the map and press the mouse button. If you release it immediately, then the region of the map centered on the mouse location and based on the *Rubber Area of Effect* is cleared. If you drag the mouse while the mouse button is still depressed, then the region below the mouse pathway is cleared.

#### **Selection**

The *Selection* tool allows you selecting a portion of your map for either copying it into the clipboard, or dragging it or clearing it or applying an effect on it. The *Selection Area of Effect* gives the number of layers that can be selected and the way the selection behaves.

To change the Selection Area of Effect, see § Layer States Selectors in § "Bars Area".

To make a selection, move your mouse onto the map, press the mouse button then drag the mouse while the mouse button is still depressed. Once you are satisfied with the selection size, release the mouse. A pulsing rectangle - nearly the size of the selected area - appears. Also, by default, the active layer(s) onto which the selection applies is displayed:



At this point, you can:

• Copy the selection (using the various « Copy ... » menu items in the « Edit » menu).

- Clear the selection (using the various « Clear » menu items in the « Edit » menu).
- *Drag* the selection (see § "**Drag and Drop**" for more information).
- *Duplicate* the selection (except in the current **Text** layer) if you press the *option* key before dragging.
- Apply an effect by using the **Effects** menu.

**Note**: Pressing the *Shift* key while dragging the mouse allows you making squared selection. This is for example useful when applying a rotation filter which works better with square areas.

#### **Text**

The *Text* tool allows you writing one or several lines of text on, by default, the map Text layer.

To write a line of text, move the mouse onto the map and press the mouse button. A vertical bar appears. This is the text starting point. Type any character. To validate your text, press the *Command* key while hitting the *Return* keys.

If you want to erase a character, press the *Backspace* key. To write another line of text, press the *Return* key. At last, if you want to cancel the whole typing, press the *Escape* key.

**Note**: You cannot write a single line with more than 255 characters. However, there is no limit to the number of lines.

#### **Grid Polygon Color Filling**

The *Grid Polygon Color Filling* tool only works in the area delimited by the Grid layer. This means that for maps made with no grid this tool has no effect.

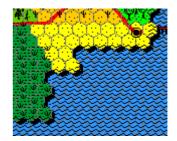
The *Grid Polygon Color Filling* tool allows you drawing one or several grid polygons (hexes, squares or lozenges). The number of polygons depends on the *Grid Polygon Filling Area of Effect*. You can change the *Grid Polygon Filling Area of Effect* by using the *Grid Polygon Color Filling Information* tool (see § "Grid Polygon Color Filling" for more information).

By default, this tool uses the current fill foreground color, fill background color and fill pattern. However, you can also use a *texture* instead. You can change this parameter by using the *Grid Polygon Color Filling Information* tool (see § "Grid Polygon Color Filling" for more information).

To draw one or several colored polygons, simply move you mouse onto the map and click on the desired location. If you drag the mouse while the mouse button is still depressed, one or several colored polygons appear below the mouse location.

If you press the *shift* key while clicking, a shadow is drawn around the current polygon. To change the *Polygon Shadow Direction*, the *Polygon Shadow Color* and *Polygon Shadow Offset* (see § "Grid Polygon Color Filling").

This functionality is only available when the *Grid Polygon Filling Area of Effect* is one polygon. The polygon shadow main purpose is to make a map border more visual (see example to the right).



#### Line

Selecting the *Line* tool allows you drawing a line. The line is drawn on the *Drawing* Layer (by default) with the current pen foreground and background colors, pen pattern and pen size.

To change any of these parameters, simply use the *Colors Pallet* tool, the *Patterns* tool and the *Pen Size* popup menu.

To draw a line, click anywhere on the map then move the mouse (without releasing it) to another location on the map. Once you are satisfied with the line size, release the mouse. If you want to draw diagonal lines, press the *shift* key while dragging the mouse. If you want to draw horizontal or vertical lines, press the *option* key while dragging the mouse.

#### **Arrow**

Selecting the *Arrow* tool allows you drawing an arrow. The arrow is drawn on the *Text* Layer (by default) with the current arrow parameters (type, shape, size, etc.), pen foreground and background colors, and pen pattern and pen size.

To change any of these parameters, simply use the *Colors Pallet* tool, the *Patterns* tool and the *Pen Size* popup menu.

To change any of the arrow information you can use the *Arrow Information* tool (see § "**Drawing Tools Parameters Area**" for more information).

To draw an arrow, click anywhere on the map then move the mouse (without releasing it) to another location on the map. Once you are satisfied with the arrow size, release the mouse. If you want to draw diagonal arrows, press the *shift* key while dragging the mouse. If you want to draw horizontal or vertical arrows, press the *option* key while dragging the mouse.

#### Pen

Selecting the *Pen* tool allows you drawing any shape you like. By default, the pen size is 1-pixel wide by 1-pixel high, but you can change its dimension by simply clicking on the *Pen Size* popup menu and selecting the desired size. You can also change the pen foreground and background colors and the pen pattern aspect.

Once the Pen tool is selected, move your mouse onto the map and press the mouse button. If you release it immediately, a simple dot it drawn. If you drag the mouse while the mouse button is still depressed, a new dot appears below the mouse location. This trick allows you drawing any shape you like. To stop drawing, release the mouse button.

#### **Terrain Tile Erasing**

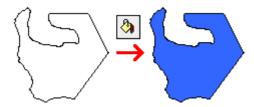
This tool allows you erasing the tiles on the same layer as the one where tiles are drawn. The particularity of this tool is that the erased area has the shape of exactly one polygon.

Once the Tile Erasing tool is selected, move your mouse onto the map and press the mouse button. If you release it immediately, a tile area the size of a polygon is erased. If you drag the mouse while the mouse button is still depressed, several cleared areas appear below the mouse location.

#### **Color Filling**

The *Color Filling* tool allows you drawing colored areas onto the map active drawing layer. The areas are filled with the current fill foreground color, fill background color and fill pattern.

An area is simply a region that can have any shape (see example). The area can be the entire map if there is no region at all.



To draw a colored area, simply move you mouse onto the map and click on the desired location.

By default, this tool uses the current (fill foreground color, fill background color, fill pattern) triplet. However, you can also use a *texture*. You can change this parameter by using the *Color Filling Information* tool (see § "**Drawing Tools Parameters Area**" for more information).

#### **Terrain Tile Drawing**

This tool allows you drawing terrain tiles.

To draw a tile, simply move you mouse onto the map and click on the desired location. If you want to draw several tiles at once, do not release the mouse while moving it.

Tiles are drawn according to the **Terrain Drawing Behavior** (see § "**Terrain Tile Drawing Parameters**" for more information).

#### **Pen Size**

This is a popup menu that allows you selecting the size of the pen. Once a new size has been chosen, it is reflected in the area at the left of the popup menu.

#### Arc

Selecting the *Arc* tools allows you drawing (on the **active Drawing layer**) an arc. These three tools allow you drawing either an arc frame, or an arc contents or both.

To draw an arc, click anywhere on the map then move the mouse (without releasing it) to another location on the map. Once you are satisfied with the object size, release the mouse. If you want to draw squared arcs instead of

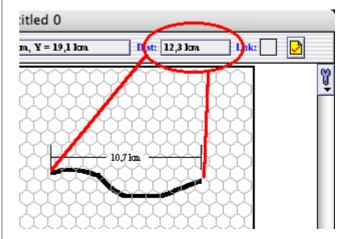
rectangular arcs, press the *shift* key while dragging the mouse. If you want to draw arcs from the center, press the *option* key while dragging the mouse.

#### **Distance Measuring**

Selecting the *Distance Measuring* tool allows you following a path (a road for example) and getting the corresponding distance based on the current polygon width and unit. The information appears in the Distance Measuring Area (located at the right of the Map Coordinates area).

The interest of this tool is that it gives more precise information about distances. In the example below, one can see that using the *line* tool to measure the black road gives a distance of 10.7 km while in reality the distance is 12.3 km (1.6 km more).

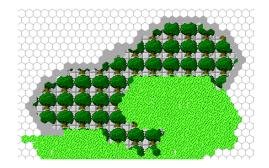
Once this tool is selected, move your mouse onto the map and press the mouse button. As long as you move the mouse while the mouse button is still depressed, the distance you have covered is displayed. To stop measuring, release the mouse button.



#### **Terrain Filling**

The *Terrain Filling* tool allows you filling an area with the current terrain tile.

To draw a "colored" area, simply move you mouse onto the map and click on the desired location. As for the *Color Filling* tool, an area is simply a region that can have any shape (see example on next page). The area can be the entire map if there is no region at all. Please note that contrary to the *Terrain Tile Drawing* tool, this tool totally ignores the **Terrain Drawing Behavior**.

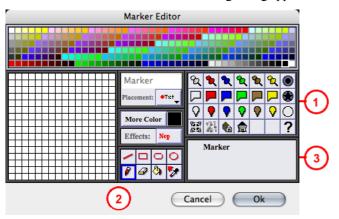


#### Marker

The Marker tool allows you creating markers.

#### 1) Creation

To create a marker, simply move you mouse onto the map and click on the desired location. The following dialog appears:

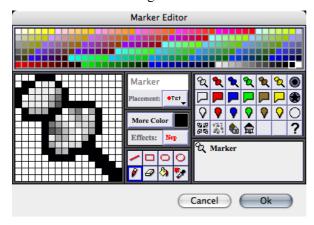


The dialog is split into three areas:

- Area (1) allows selecting markers. The marker is automatically put into the gridded square in area (2) so that you can modify it.
- Area (2) allows you modifying or creating markers, and changing the marker legend, color and style. The marker shape can be altered using the various tools and filters. The marker color can be changed using either the 256-color pallet or the "More Color" button. At last, you can change the text position relative to the marker icon using the button located at the right of the "Font..." button.
- Please note that a marker is created using the text style that is selected in the Styles pallet (see § "The Inks & Styles Pallet" for more information). You can of course change that text style afterwards.
- Area (3) is the marker preview.

#### Examples:

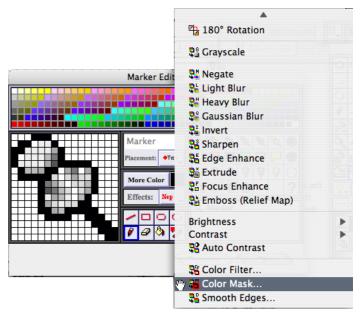
Clicking onto the white marker located into the top left corner leads to the following result:



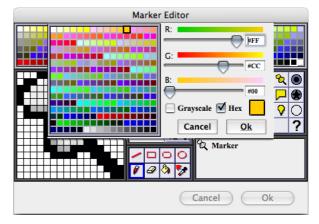
Now suppose you want a marker of similar shape but with an orange tone (i.e. Similar for example to the yellow marker but in orange). As no such marker exists in the **Marker Area**, we shall have to build it. However, as we shall see, this is quite easy.

A naïve approach would be to select an orange color and use the *color filling* tool to fill the marker. But what about the various shades of gray the marker is made of? If we select a different orange color for each shade, this will take us a lot of time and this is even not sure the result will be satisfying.

Fortunately, the various filters are here to help us. So let's select the *Color Mask* filter (see picture on next page):



Once selected, the *Color Picker* dialog appears. Select an orange color and click on the  $\underline{Ok}$  button.



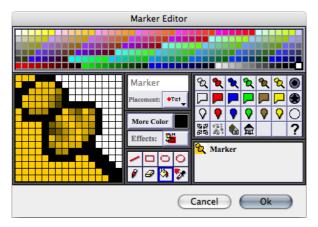
The marker is drawn with various shapes of orange. Notice that the gray shades have been respected. Of course, these are now orange shades. However, there are parts of this image that are painted in orange while they should be plain white (the outside of the marker). So we need to remove them.



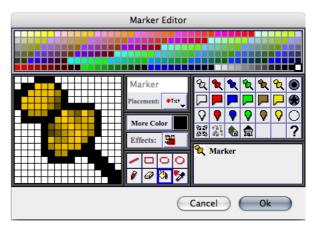
To remove the unwanted orange-colored areas, we select a while color and the *color filling* tool (see next image).



Then we click into each area we want to "erase". In the example below, we have clicked somewhere into the yellow area located into the top right corner. Proceed until all the areas have been converted into white.



The final result is show in the image bellow. Notice that the preview is automatically updated to reflect your changes.



#### 2) Manipulation

Once a marker has been created, it appears on the main map, on top of all the various layers (see image on next page).

To change its appearance, its text style, to move or to delete it, to hide or show it, simply *control-click* into the marker. This brings a popup menu that allows you selecting the operation you want to perform (again, see image on next page).

If you select the "Edit..." menu item, the Marker Editor dialog appears.

If you select the "Update Text Style" menu item, the marker text style is updated with the text style that is selected in the Styles pallet (see § "The Inks & Styles Pallet" for more information).

If you select the "**Delete...**" menu item, a dialog appears asking if you really want to perform this operation as it cannot be undone.

If you select the "Hide" menu item, the Marker is made invisible.

If you select the "**Show**" menu item, the **Marker** is made visible again.

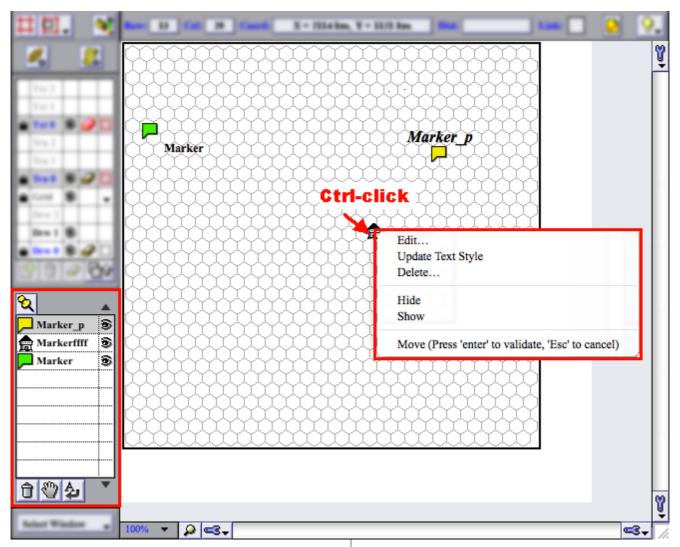
If you select the "Move (Press 'enter' to validate, 'Esc' to cancel)" menu item, a copy of the marker is displayed surrounded by a blue box. If you move the mouse cursor within that box, the cursor turns into a *hand* cursor meaning you can drag the marker.

Once this is done, simply press the *return* key to validate your move or the *escape* key to cancel the operation.

There is also a "Markers" menu item in the "Edit" menu. This menu item has two attached sub menus that allow hiding or showing all the markers. This can be useful when you want to print a map for you players and you do not want them to see the locations identified by the markers.

Alternatively, you can use the **Markers Manager** that is located at the bottom left of the main window. There is a listbox that displays the list of all the markers you have created.

If you have created more than nine markers, they cannot be all visible in the listbox. In that case, use the black up and down arrow above and below the listbox to scroll through all the available listbox.



For your convenience, when you reach the end of the markers list and you scroll down, you automatically goes back to the beginning (and similarly, if you try to scroll past the first marker, then you go to the last one).

Once a marker is selected, you can show or hide it by clicking into the second column: a black eye icon means the marker is visible while a red one means it is invisible.

Double-clicking on a marker brings the **Marker Editor**.

There are also three buttons below the listbox. The first

one (the button) allows you deleting a marker, the second one (the button) allows you moving the marker, and the third one (the button) allows you updating the marker text style with the Inks Pallet active Text Style. These buttons are only enabled when a marker is selected.

#### **Pen Size**

This popup menu allows selecting the pen thickness (from 1 to 16 pixels).

#### **Keyboard indicator**

This area displays the keyboard key(s) you can use with the current tool.

For example, when selecting the line tool, this indicator displays the **Shift** and **Option** keys, meaning you can use them while drawing a line (the Shift key allows you drawing diagonal lines while the Option key allows you drawing vertical or horizontal lines).

To get the list of all the available keyboard keys that can be used with tools, select the "**Keyboard Shortcuts**" menu item in the "**Help**" menu.

#### Layer selector

This popup menu allows you selecting the **active** layer onto which the current tool will operate.

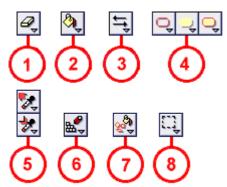
For example, by default, the **Line** tool works on the active *Drawing Layer*. By clicking on the corresponding popup menu, you can specify that this tool now operates on the active *Terrain Layer*.



Tools

# **Drawing Tools Parameters Area**

The **Drawing Tools Parameters Area** (see below) is the part of **Drawing Tools Area** where there are downward arrows. To view a tools parameters, you must *double-click* on the corresponding tool area. For clarity purpose, only the tools that are double-clickable are represented:



- (1): Erase Parameters.
- (2): Color Filling Parameters.
- (3): Rounded Rectangle Parameters.
- (4): Arrow Parameters.
- (5): Pipette Parameters.
- (6): Terrain Tile Drawing parameters.
- (7): Grid Polygon Color Filling Parameters.
- (7): Selection Parameters.

All the tools parameters are displayed in a window drawer at the left of the **Tools pallet**.

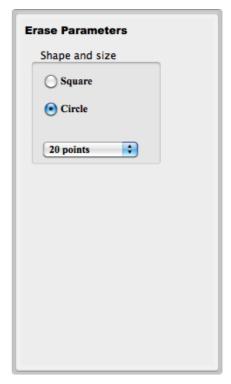
### **Drawing Tools Parameters Selector**



Clicking on this button allows you displaying the tools parameters window drawer without having to double-click on each button in the **Drawing Tools Parameters Area**.

Clicking again on this button allows you hiding the tools parameters window drawer.

#### **Erase Parameters**

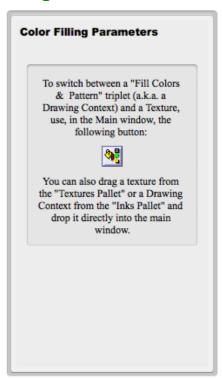


The *Erase Parameters* allow you defining the *Erase Shape and Size*. In the drawer, you can select:

- The area **shape**: square or circle.
- The area **size**: from 2 to 120 points, but with some holes in the progression: 2, 3, 4, 5, 10, 20, 40, 60, 80 and 120 pixels.

The default Erase Shape and Size is a 20 pixel-diameter circle that clears the drawing and terrain active layers.

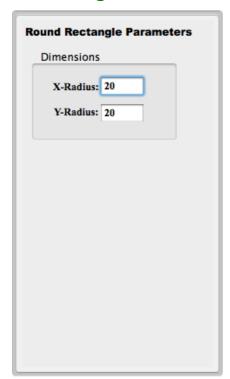
#### **Color Filling Parameters**



The *Color Filling parameters* used to allow you switching between a Drawing Context or a texture when filling an area.

This is now done directly in the Main window by clicking on the button containing a Color Filling tool icon.

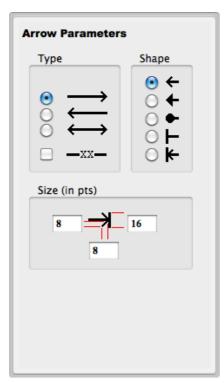
#### **Rounded Rectangle Parameters**



The *Rounded Rectangle parameters* allow you changing the width (*X-radius*) and height (*Y-radius*) of the rounded corner.

The default is 20-pixel width and 20-pixel height.

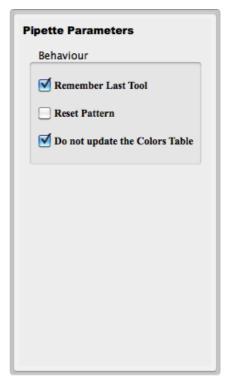
#### **Arrow Parameters**



The *Arrow parameters* allow you modifying the following arrow aspects:

- Type. You can choose among a line with an « arrow » at the beginning of the line, or an « arrow » at the end of the line or an « arrow » at both ends.
  - In addition, you can require a line to be drawn with a dimension (the **XX** checkbox).
- Shape. You can choose among a tip made of a simple arrow, or a plain arrow, or a circle, or a bar, or a bar with a simple arrow.
  - The last two shapes are intended to be used in conjunction with the dimension display.
- **Size**. You can specify the width and height of the arrows ends as well as the height of the vertical bar (when used).

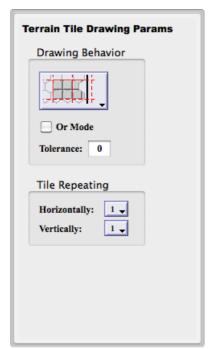
#### **Pipette Parameters**



The *Pipette parameters* allow you specifying the *Pipette Behavior*.

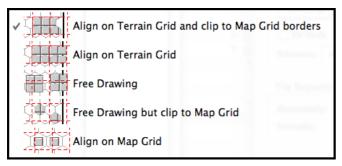
- Remember Last Tool. When this option is checked and when you select a pipette tool, the previous tool is remembered. In that case, once you have selected a new color, the previous tool is restored.
- **Reset Pattern**. When this option is checked and you select a color, the current ink pattern is reset to the black pattern.
- **Do not update the Colors Table**. When this option is checked, the corresponding Colors Table is not updated i.e. only the *Inks Area* (in the **Tools Pallet**) is updated.

#### **Terrain Tile Drawing Parameters**



The *Terrain Tile Drawing parameters* allow you modifying:

- The Terrain Drawing Behavior. This defines how terrain tiles are drawn on the Main window:
  - **Placement**. Clicking on the big button display a popup menu with for possible choices:

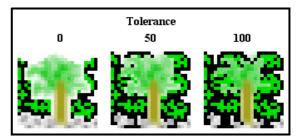


- ➤ Aligned on Terrain Grid (first two modes). These two modes are useful when tiles placement is important, typically when drawing dungeon or castle walls. In addition, if you choose "Clip to Map Grid Borders", then all tiles that are drawn on top of the grid edges are clipped to the grid polygons (hex, square or lozenge).
- ➤ Free Drawing (next two modes). When these modes are on, a tile is drawn exactly at the location where you click on the map i.e. the Terrain Grid is ignored. In addition, if you choose "Clip to Map Grid", then a tile shape is clipped to the shape of one grid polygon. Please note that when this last mode is on, terrain repeating is disabled.
- > Align on Map Grid (last mode). When this mode is on, a tile is drawn exactly in the middle of a grid polygon.
- Or Mode. By selecting this check box, all the tiles you draw are ored with the tiles on the map. If you

deselect it (the default), all the tiles you draw, replace the tiles on the map. The or mode can be used for example to put a cow tile on top of a grass tile.

The tolerance editfield allows you specifying which colors are ignored when performing the or operation. By default the tolerance is 0, meaning only the white color is not drawn. However, when oring blurred terrain tiles the result is generally anesthetic because the light gray pixels remain visible. So, by specifying a tolerance greater than zero, you tell RPGMapMaker to ignore all red, green and blue color components that are greater or equal to (255 - the tolerance value).

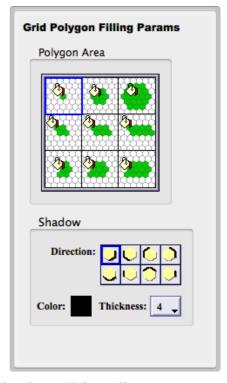
The example below shows the result of two ored tiles with three different tolerance values.



<u>Note</u>: To draw a terrain tile in Or mode on a case-bycase basis, press the *shift* key while clicking on the map. If you are already in Or mode, pressing the *shift* key allows you drawing in normal mode instead.

• Tile Repeating. This area allows you repeating a terrain tile up to 10 times along the x or/and the y-axis. When you click on each corresponding button, a popup menu appears. To select the repeating factor, simply select the desired value. The repeating factor is then reflected at the left of the small black arrow.

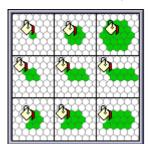
#### **Grid Polygon Color Filling Parameters**

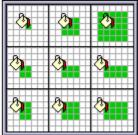


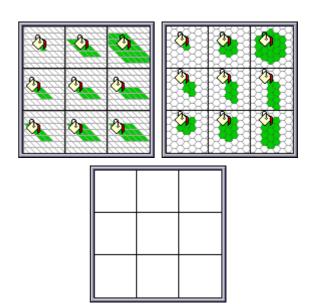
The *Grid Polygon Color Filling parameters* allow you modifying :

- The Polygon Area. This defines how many terrain tiles are drawn on the Main window and when there are more than one tile, the shape they will possess (Grid Polygon Filling area of effect):
  - o One polygon.
  - Seven hexes, nine squares or nine lozenges centered on the mouse location.
  - Nineteen hexes, twenty-five squares or twenty-five lozenges centered on the mouse location.
  - Four polygons in two lines of two polygons. The polygons are filled to the right and below the mouse location.
  - Six polygons in two lines of three polygons. The polygons are filled to the right and below the mouse location.
  - Height polygons in two lines of four polygons. The polygons are filled to the right and below the mouse location.
  - Six hexes in three lines of two hexes. The hexes are filled to the right and centered on the mouse location.
  - Nine polygons in three lines of three polygons. The polygons are filled to the right and centered on the mouse location.
  - Twelve polygons in three lines of four polygons.
     The polygons are filled to the right and centered on the mouse location.
- The Polygon shadow characteristics. This defines its direction, color and thickness:
  - **Direction**. To select one direction, simply click on any icon in the table.
  - Color. Simply, click on the square to change its color
  - **Thickness**. Click on the popup arrow to change its value.

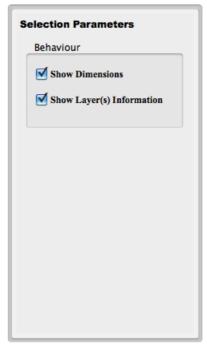
Please note that the *Grid Polygon Filling Area of Effect* aspect depends on the Polygon shape (the last image is for maps with no grid. The contents is empty as this tool has no effect in that situation):







#### **Selection Parameters**



The Selection Information parameters allow you specifying whether or not you want the following information to be displayed:

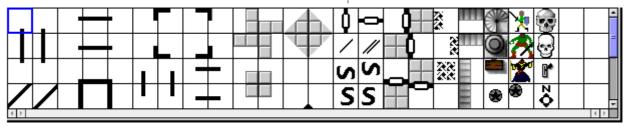
- The selection dimensions,
- The list of layer(s) onto which the selection operates.

## **The Terrains Pallet**

#### **Terrains Area**

The *Terrains Area* occupies most of the **Terrains** pallet contents.

As you may have noticed, not all the terrain tiles are used. This is intentional: the empty tiles allow you adding custom tiles without losing the existing ones (see *Terrain Editor* in the § "Toolbar Area" for more information). Of course, the *Terrain Editor* can also be used to modify existing tiles.



It contains a number of terrain tiles that depends on the tile size:

- **12-pixel width by 12-pixel height**. The library contains **322** terrain tiles (7 rows of 46 columns).
- **16-pixel width by 16-pixel height**. The library contains **175** terrain tiles (5 rows of 35 columns).
- **20-pixel width by 20-pixel height**. The library contains **140** terrain tiles (5 rows of 28 columns).
- **24-pixel width by 24-pixel height**. The library contains **120** terrain tiles (5 rows of 24 columns).
- **28-pixel width by 28-pixel height**. The library contains **120** terrain tiles (6 rows of 20 columns).
- **32-pixel width by 32-pixel height**. The library contains **120** terrain tiles (6 rows of 20 columns).
- **36-pixel width by 36-pixel height**. The library contains **120** terrain tiles (6 rows of 20 columns).
- **40-pixel width by 40-pixel height**. The library contains **120** terrain tiles (6 rows of 20 columns).

The number of tiles that are visible depend on the pallet size (see "Toolbar Area" below).

To select a terrain tile, just click on the desired **Terrain** tile.

To draw a terrain on the map, select the **Terrain Tile Drawing** tool (in the § "**The Tools Pallet**") and simply click on the map where you want it to appear. You can also

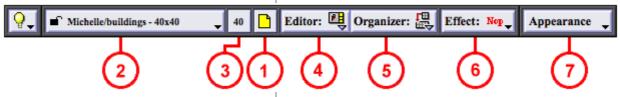
Sometimes, you need to duplicate a terrain tile, or you want to copy a single tile from a library to another library or you want to transform a portion of your map into a tile. To achieve this, and instead of using the *Terrain Editor*, you can use the « Copy », « Paste » and « Paste from Clipboard » menu items that are available in the "Terrains" menu.

Please note that if you want to transfer a great number of tiles from several libraries into one library or if you want to quickly reorder the tiles of a library it is recommended to use the **Terrain Organizer** tool (see *Terrain Organizer* in § "**Toolbar Area**" for more information).

#### **Toolbar Area**

This area is located at the top of the **Terrains Pallet**.

- (1): Library Dirty Status indicator.
- (2): *Library Name* indicator.
- (2): *Library Selection* area.
- (3): Tile Size indicator.
- **(4)**: *Terrain Editor* button.
- **(5)**: *Terrain Organizer* button.
- (6): *Effect* button.
- (7): *Pallet appearance* button.



press the *option* key into the *Terrains Area* to select the **Terrain Tile Drawing** tool.

By default, a terrain tile is aligned on the *Terrain Grid*. However, this behavior can be changed (see *Terrain Tile Drawing Parameters* in the § "Terrain Tile Drawing Parameters" for more information).

## **Library Dirty Status**

This indicator is similar to the *Map Dirty Status* i.e. it reflects the *dirty status* of the *current terrain library*: if the terrain library is dirty the document icon contains a *red check mark*, otherwise it is empty.

#### **Library Selection**

When you click on the small black arrow, a popup menu is displayed that contains the list of all the available terrain tiles libraries (the current library is the one with the check mark). Once you are familiar with the contents of each terrain tiles library this popup menu allows you quickly selecting a library without having to use the « Load Library » menu item in the "Menu: Terrains" menu (see Menus-Manual.pdf for more information).

Please note that no path is displayed, because the libraries are all located either into the **Core Libraries** or in the **User Libraries** folder.

All libraries from the **Core Libraries** folder have a locked padlock, meaning the libraries are considered read-only (this is a safety measure to prevent you from accidentally modifying them). On the contrary, all the libraries from the **User Libraries** folder have an unlocked padlock, meaning you can modify them.

Once you have chosen a terrain tiles library, the current library is replaced by the selected one and the library name as well as the padlock icon are updated with the name and the **Locked/Unlocked State** of the new library.

**Note**: This name used to be available in a menu item in the « *Terrains* » menu. This is no longer the case.

#### **Tile Size**

This indicator gives you the size (in pixels) of each tile of the current library. The size ranges from 12 to 40, in a 4-pixel increment (i.e. you can have tiles which dimensions are 12x12, 16x16, 20x20, 24x24, 28x28, 32x32, 36x36, and 40X40 pixels).

#### **Terrain Editor**

At some time, you will probably feel the need to modify existing terrains tiles or create new ones. In that case, the *Terrain Editor* is the perfect tool for that operation. To invoke it, you can either click onto this button to edit the current terrain tile or double-click onto a terrain tile in the *Terrains Area*.

R:
#00
Grayscale Hex

Cancel Ok

Tile (real Size)

At the left of the Terrain Editor, the terrain tile is displayed with a variable scaling factor (x 10 for a 24 by 24 terrain tile, otherwise this ranges from x 20 for 12 by 12, to x 6 for 40 by 40). This allows you drawing with a perfect accuracy.

The icon located at the bottom right corner of the scaled terrain represents the terrain tile at its real size.

As for the **Terrain Pallet**, the *Terrain Editor* adjusts its appearance depending on the size of the tile currently edited:



To modify or create a terrain tile, you have the following functionalities at your disposal:

• *Tools*. The following tools are available: *Pen, Line, Rectangle, Oval, Rounded Rectangle, Rubber, Pipette* and *Color Filling*.

Holding the *shift* key while drawing ovals (respectively rectangles) allows you drawing circles (respectively squares) instead.

The rectangle, oval and rounded rectangle tools can be used either in *framing mode* (i.e. only the frame shape is drawn) or in *filling mode* (i.e. only the contents of the shape is drawn).

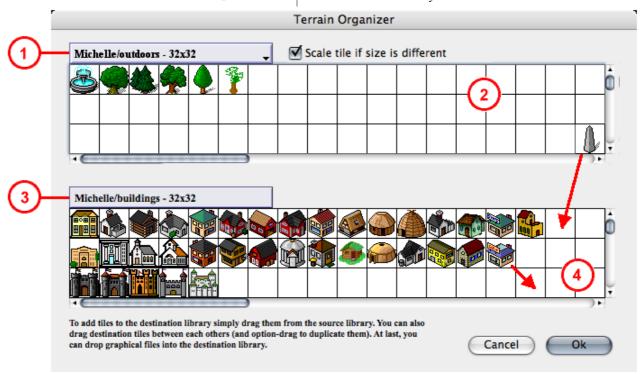
**Note**: By double-clicking on the *Rounded Rectangle* tool, you bring a dialog that allows you changing the width (*X-radius*) and height (*Y-radius*) of the rounded corner.

- **Transformations**. You can apply on a terrain tile the following effects (from left to right):
  - Shift. By clicking into the shift icon (the group of four arrows located below the tools), you can shift the entire image - one bit at a time - either to the left, to the right, to the top or to the bottom.
  - If you click on the button at the right of the shift icon, you transform the shift operation into a circular rotation operation. For example, a one-bit circular rotation to the left shifts the map one-bit to the left and replaces the right most column by the bits from the left most one.

By default, the shift (or circular rotation operation) operates one bit at a time (this is called the operation step). However, you can change this default by clicking on the **Step** bevel button. In that case, you can choose a shift step from one

### **Terrain Organizer**

This tool has two purposes: *Current Library* tiles reordering and tiles transferring from other libraries or external pictures into the *Current Library*.



to six pixels.

- o *Or Copy*. If you have previously copied a terrain tile (when you where in the *Terrain Editor*), you can *or* it with the current terrain tile.
- o *Color Filter*. This allows you changing at once of all the bits of the terrain tile which color is given by the *color pallet* into another color.
- o *Effects*. By clicking on the popup menu you can apply an effect to the current tile.
- **Color Pallet**. There is a 256-color pallet that allows you selecting in which color all drawings occur. If your maps color depth is not 256 colors, you may prefer to use the three sliders to select a specific RGB color (not available in the 256-color pallet).

In addition, if you click on the **Grayscale** check box, the sliders allow you selecting any shade of gray. When the maps color depth is 256 colors, the sliders and the check box are not visible.

The standard « Edit » menu items are also available. This means you can *Copy*, *Cut* or *Clear* a terrain tile. You can *undo* at any time the 40 operations you performed.

If you copy a terrain tile, then the next time you open the Terrain editor, you will be able to *Paste* it. Note that the copied terrain tile is not lost even if you perform Cut/Copy/Clear/Undo operations in the **Main Window**.

- (1) **Source Library Selector**. This popup menu allows you selecting the source library.
- (2) **Selected Library**. The library selected by the *Source Library Selector*. Once a library is selected you can drag any tile from this library into the destination library. Note that drag between tiles from this library is not allowed.
- (3) **Destination Library Selector**. This area shows the name of the *Current Library*.
- (4) *Current Library*. This is the library you have selected in the *Terrains Area*. You can drag tiles from the source library into the destination library. If the tile size of the source library is different from the tile size of this library, you can either decide to scale the tiles (checkbox **Scale tile if size is different** selected) or to truncate it.

In addition, you can duplicate tiles from the destination library by pressing the *Option* key while dragging a tile.

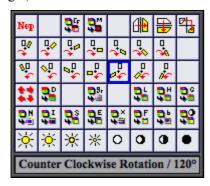
At last, you can directly drop a list of files (either PICT format or any format recognized by QuickTime if QuickTime is installed) into the library. This allows you quickly importing terrain tiles.

Please note that if the *Current Library* is locked, the *Terrain Organizer* tool is not available.

#### **Effects**

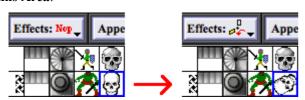
When drawing a terrain tile on the grid, you can choose to apply an effect on it. For an effect to take place you must click on the small arrow button in the **Effect** button. A pal-

let appears that let you choose the desired effect (see image to the right).



Clicking on an icon selects the associated effect. Moving your mouse over an icon displays the effect name at the bottom of the pallet.

Once an effect is selected, it is reflected directly in the **Terrains Area**:



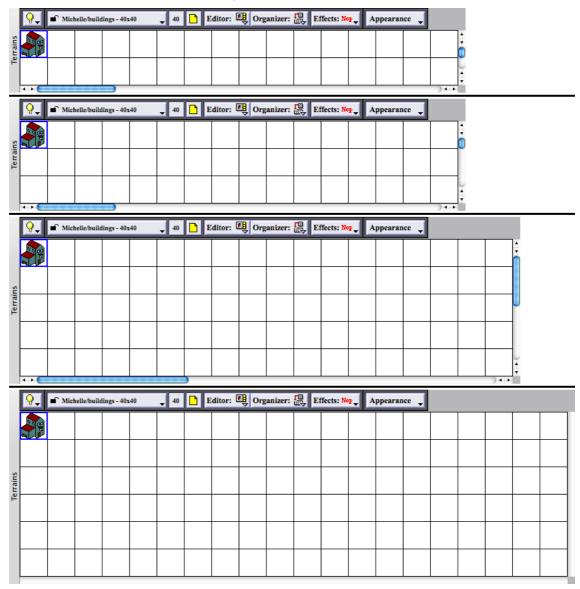
#### **Pallet Appearance**

Clicking on the small downward arrow in the **Appearance** button brings a popup menu that allows you selecting the size of the terrain pallet:

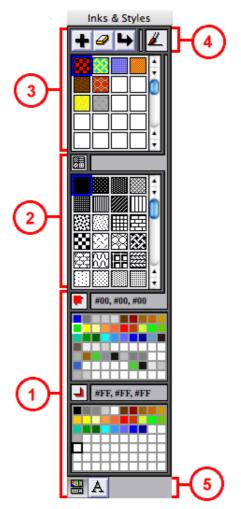


- **Small Window**. The pallet height is reduced so that there is more room for the Main window.
- **Normal Window**. The pallet height and width is the one you get when you open the application.
- **Big Window**. The pallet height as well as its width is increased so that you can see more tiles.
- **Huge Window**. The pallet height as well as its width is further increased so that you can see all the tiles.

Example with a 40-pixel tile terrains library:



## The Inks & Styles Pallet

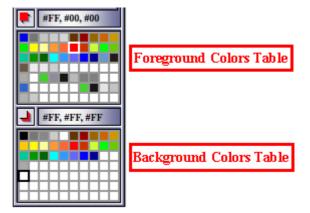


When you open this pallet for the first time, you get a vertically-elongated window that is split into several areas:

- (1) *Colors Tables* area for foreground and background color selection (see below for more information).
- (2) **Patterns** area for pattern selection (see next paragraphs for more information).
- (3) **Drawing contexts** area for quickly saving and restoring foreground, background and pattern triplets (see below for more information).
- (4) *Ink Mode* area. This icon reminds you which current ink mode (pen/text/frame or fill) is active (see § "Inks Area" in the Tools Pallet for more information).
- (5) **Pane Selection** area for giving you access to the **Text Styles pane** when in the **Inks pane** and access to the **Inks pane** when in the **Text Styles pane**:
  - The first button (the leftmost one) allows you selecting the Inks pane (the one that is visible when you open the window for the first time).
  - The second button (the rightmost one) allows you selecting the **Text Styles pane**.

## Inks pane

#### **Colors Tables**



- **Foreground Colors Table**. This table must be used to change the current ink foreground color.
- **Background Colors Table**. This table must be used to change the current ink background color.

Each *Colors Table* comes with a predefined set of 70 colors. This set of colors is generally sufficient to paint most of your maps: there are different types of brown for mountains, hills, etc.; different types of green for grass, meadows, etc.; different types of blue for sea, rivers, etc.

As you may have noticed, only 28 out of the 70 squares are colored (when you launch the application for the first time). This is intentional: the empty squares let you add custom colors without losing the existing ones (but you can replace them if you wish).

To select a color from one of the *Colors Table*, simply click on the corresponding colored square. This color becomes the new ink **foreground or background color**. If you want to change a color, double-click on a color to invoke the corresponding *Color Picker* (see below).

Each time you select a color in a *Colors Table*, its corresponding RGB value (in hexadecimal) is displayed.

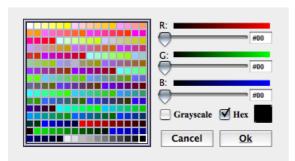
You can see each **Colors Table** as a "shortcut" for selecting colors: instead of clicking each time on the "F" or "B" button in the **Tools Pallet** to change a color, you directly click on a color in one of these tables and this color is reflected back into the **Tools Pallet**.

Please note that the reverse is not true: changing a color through the **Tools Pallet** interface has no impact on the **Inks & Styles Pallet**.

#### **Color Picker**

In rare circumstances (for example, you want to draw various sea depths using different shades of blue), the *Colors Table* does not contain all the needed colors. In that case, to add new colors (or to modify existing ones) you can use the *Color Picker*.

When you double-click on a **current color**, the *Color Picker* dialog appears. This dialog contains, by default, a 256-color pallet, three sliders, three editfields and two check boxes.



If the *Colors Table* **current color** can be found in the 256-color pallet, it is highlighted (i.e. the colored square has a border around it). Otherwise it is not.

To choose another color, click on the desired colored square. You may prefer to play with the three sliders to select a specific RGB color (not available in the 256-color pallet) or to enter a color directly by using the three editfields. In addition, if you click on the **Grayscale** check box, the sliders allow you selecting any shade of gray.

To enter a color directly, select an editfield, write the desired number (add a '#' at the beginning if the value is in hexadecimal) and press the *tab* key.

By default, the RGB color in an editfield is displayed in hexadecimal (the values into the editfields start with a '#'). However, by unchecking the checkbox labeled **Hex**, you force the display to be in decimal. Please note that this checkbox only affects the way a color is displayed i.e. whatever the state of this checkbox, you can always enter a color in either decimal or hexadecimal.

If you close the dialog by clicking onto the **Ok** button (or by pressing the *Enter* key), the *Colors Table* **current color** is replaced by the new color. Otherwise the **current color** is left unmodified.

**Note**: If you do not want to lose the existing colors, first select an empty square on a *Colors Table* (which now becomes the **current color** for that pallet). This way, the empty square will be replaced by the selected color, leaving the other colors untouched. Also, if you want to dismiss the pallet without any selection, press the *Escape* key.

Please note that there is an option in the **Preferences dialog** that allows you using the **System Color Picker** (see image to the right) instead of this **Color Picker**.



#### **Patterns**

This tool lets you choose among 72 different patterns. To select a pattern, simply click on the *Patterns Table*.

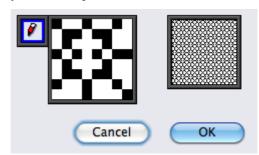


Again, you can see **Patterns Table** as a "shortcut" for selecting a pattern: instead of clicking each time on the "**P**" button in the **Tools Pallet** to change a pattern, you directly click on a pattern in this table and this pattern is reflected back into the **Tools Pallet**.

Please note that the reverse is not true: changing a pattern through the **Tools Pallet** interface has no impact on the **Inks & Styles Pallet**.

#### Changing a pattern shape:

To edit a pattern, double-click onto a pattern. Please note that only the last 12 patterns are editable.



You have access to only one tool: a **pen** tool. It allows you drawing black pixels when the background is white and white pixels when the background is black.

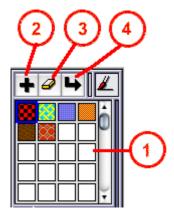
#### **Drawing Contexts**

The *Drawing Contexts* tool allows you quickly saving and restoring up to 40 drawing contexts.

But what is a drawing context? This is simply a set of three parameters: a foreground color, a background color and a pattern.

Suppose you have a map with a region filled with ice. To simulate the ice, you have decided to fill the grid polygons with a white background scattered with light blue dots. Then you fill another region (for example a mountain in plain dark brown). At this point, your "ice" setting is lost. If you want to draw some more ice, you need to remember what colors and what patterns you used and this is of course a waste of time! You wish you had saved this context...

This is the purpose of the *Drawing Contexts Area*:



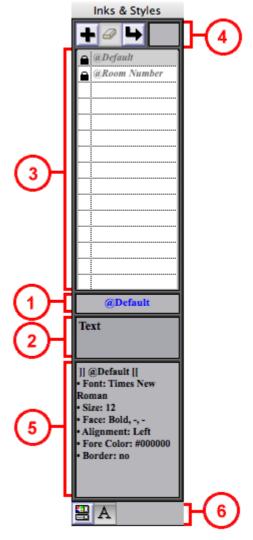
Once you are satisfied with the current ink *Drawing Context*, select in the *Context area* (1) an empty slot (or one you want to replace) and press the button marked with a « plus sign » (2).

**Note 1**: If you want to clear a context, press the **Rubber** button (3).

**Note 2**: When the *Color Filling* tool is active, you can directly drag a *Drawing Context* into the *Main Window* map area.

To restore a context, select one slot in the *Context area* and use the button marked with an arrow (4). The context will replace the foreground color, the background color and the pattern of the current Ink Mode (Frame or Fill).

## **Text Styles Pane**



This pane allows you creating text styles. To select this pane, click on the "A" button in the pallet **area** (5).

When you select this pane for the first time, it has the appearance of the below picture: a listbox with two entries named "@default" and "@Room Number" (3) and the name of the active text style (1).

To create, delete or activate a text style, please use the three buttons at the top of the pane (4).

- Creation: to create a text style, press the "Plus" button. This adds an entry in the listbox with a pre-generated name (S\_<number>) and brings the Text Styles Attributes sheet (see next page).
- Edition: once a text style is created, you can double-click on its entry in area (3) to change its attributes.
- Visualization: clicking on any text styles in area (3) displays a preview in area (2) as well as the list of all its attributes in area (5).
- **Deletion**: to delete a text style, select it and then press the "**Rubber**" button. Please note that styles that are locked (they have a small padlock at their left side) cannot be deleted.

• Activation: to activate a text style, select it and then press the "Arrow" button. Its name can be seen in area (1).

#### **Behavior:**

When you activate a text style, text drawing on the current map window is done with that style. In addition, any marker you create also uses that text style.

#### **Special case**:

When you create a window, text drawing and markers are initialized with the "@default" text style.

When you generate a random dungeon with rooms, the room numbers uses the "@Room Number" text style.

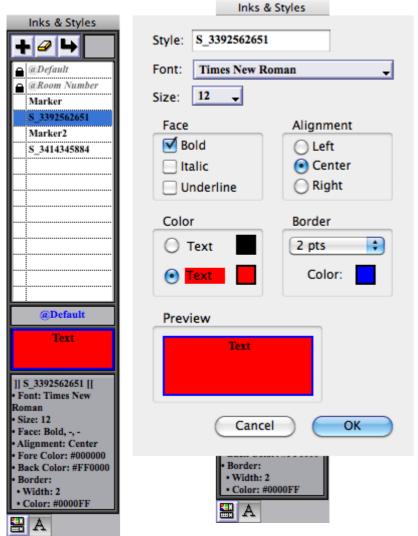
#### **Text Style Attributes**

Double-clicking on a style brings a sheet:

It that allows you modifying the following attributes:

• **Style name**. This editfield allows you modifying the name of this style

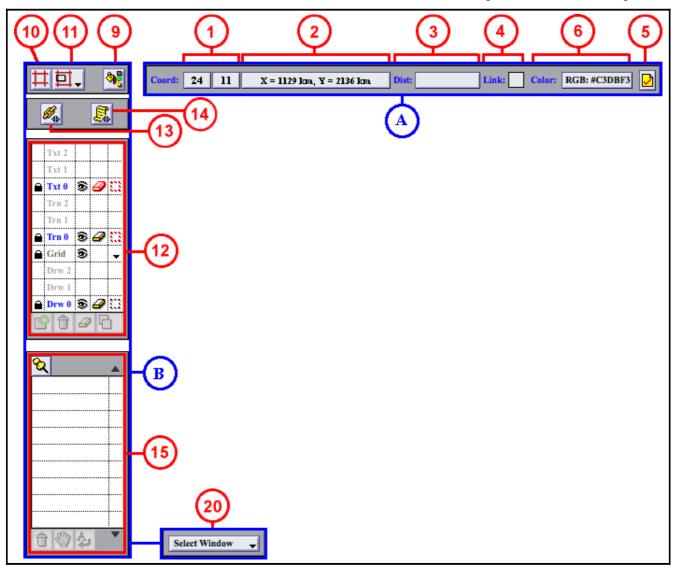
- (S\_<number> when created). You cannot change the name of a locked style.
- **Font**. From the fonts available in your system.
- **Size**. From 7 to 288 points, but with some missing sizes.
- Face. You can choose among *Normal i.e. neither Bold nor Italic nor Underline*, *Bold, Italic*, or *Underline*.
- **Alignment**. You can choose among *Left* or *Center* or *Right Alignment*.
- Color. You have the choice among:
  - A text in color with no background. By default the text color is black but you can change it by clicking onto the rectangle at the right of the first radio button.
  - A text in color with a colored background rectangle. By the default, the background color is red but you can change it by clicking onto the rectangle at the right of the second radio button. Of course, you can also change the text color.
    - **Border.** You can choose to have no border around the text (*No Frame*) or a colored border of one to five pixels width. The frame color is black by default but you can change it by clicking onto the rectangle below the popup menu.
    - Preview. Display a preview of the text attributes as they will draw on the main window.



## The Main window

#### **Bars Area**

We describe here the areas that are located below the **Main Window** titlebar and at the right of the window left edge.



#### (A) Statusbar

- (1) Grid Coordinates area.
- (2) Map Coordinates area.
- (3) Distance Measuring Info area.
- (4) Link Status indicator.
- (5) Map Dirty Status indicator.
- (6) RGB Color indicator.

#### (B) Toolbar

- (9) *Color Filling behavior* selector.
- (10) Terrain Grid button.
- (11) Align On Terrain Grid Behavior popup menu.
- (12) Layers Manager area.
- (13) Links Editor button.
- (14) Script Editor button.
- (15) Markers Manager button.
- (20) Select Window button

#### **Grid Coordinates**

When you move the cursor over the map grid, the current object grid (hex, square or lozenge) coordinates are automatically displayed in this area. The coordinates are in the form (Row, Column) where Row is in the range 0 to (map

grid #rows - 1) and Column is in the range 0 to (map grid #columns - 1).

Please note that if the mouse points into an area of the map that is not covered the grid, this area is left blank.

This feature is useful when you use the *Links Editor* to locate the link locations on the map grid.

#### **Map Coordinates**

When you move the cursor over the map, the map coordinates are displayed into that area.

If the unit is cm (or ft), the dimensions are in the xxx.xx format (for example 304.12 cm). If the unit is m (or ya), the format is xxx.x (for example 36.4 m). At least, if the unit is km (or mi), the format is xxx (for example 2345 mi).

The map (x, y) pixel-coordinates are converted into the map (X, Y) unit-coordinates by the following formulas:

- $X ext{ (in unit)} = [x ext{ (in pixels)} * Polygon Hori$ zontal Dimension (in unit)] / Polygon Width (in pixels)
- Y (in unit) = [y (in pixels) \* Polygon horizontal dimension (in unit)] / Polygon Width (in pixels)

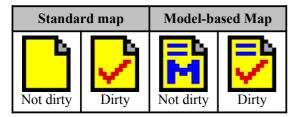
Once the map is created, it is still possible to modify the Polygon horizontal dimension and/or the coordinates unit as well as the coordinates formatting. To do so, simply select the "Grid Information..." menu item in the « Edit » menu (see corresponding § for more information).

#### **Distance Measuring Info**

This area displays the distance you get when using the Distance Measuring tool.

#### **Map Dirty Status**

This area is made of a small document icon. If the map is dirty this icon contains a red check mark, otherwise it is empty. The overall aspect of the icon depends on the document type:



#### **Link Status**

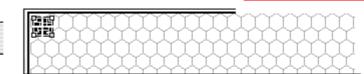
This area displays a small link icon if there is a link associated to the current object grid and nothing else otherwise. This allows you quickly locating the links on the map without using the Links Editor.

Please also note that if there is a link, the associated map is displayed in a text box above the grid (see example on next column).

However, as this feature can be deactivated (by the checkbox in the Links window), the Link Status guarantees you that if there is a link associated to an object grid you will always be aware of it.

If the link to the associated map is broken (for example because you have deleted the corresponding map) a small link icon with an exclamation mark is displayed.

#### Without Link Information



#### With Link Information (valid)





#### With Link Information (broken)





#### **RGB** Color indicator

Display the RGB color value of whatever if below your mouse cursor.

#### **Color Filling behavior selector**

This button lets you select how the Color Filling tool must behave:

Use a *Drawing Context* when filling an area ( ).



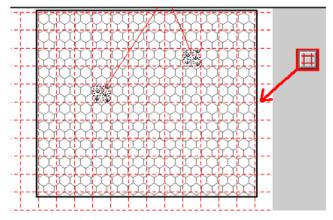
Mouse over hex (0,0)

Use a *texture* when filling an area ().



#### **Terrain Grid**

This button allows you showing (or hiding) the *Terrain Grid*.



The Terrain Grid or RectGrid allows you visualizing where on the map the terrain tiles are drawn (see image below), assuming of course, you have chosen the Align on Terrain Grid behavior with the Terrain Drawing Behavior popup menu on the Terrains Pallet.

The RectGrid has a real interest when the placement of tiles is important: i.e. when you build dungeon walls. In that case, simply click anywhere on the map, and the tile will be automatically aligned.

#### **Align On Terrain Grid**

This popup menu allows you specifying whether or not a *Selection*, a *Pasted picture* or a *Dropped picture* is aligned on the *Terrain grid* when moving, shrinking or expanding them.



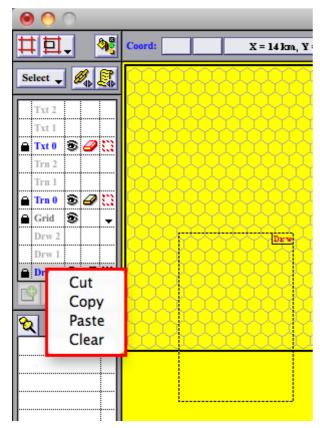
#### **Layers Managers**

See § "Managing Layers" for more information.

In addition, you can control-click on a layer name (but the **Grid** one) to bring a contextual menu that allows you cutting, copying, pasting or clearing a layer.

The contextual menu appearance depends on what you have done previously. For example, if you just made a selection, then the menu will show only the *Cut*, *Copy* and *Clear* menu items, and if you performed a copy operation, then the *Paste* menu item is shown, etc.

You can see this contextual menu as a "shortcut": instead of selecting a submenu item in the Layers menu item in the Edit menu, you control-click directly into the Layers Manager.

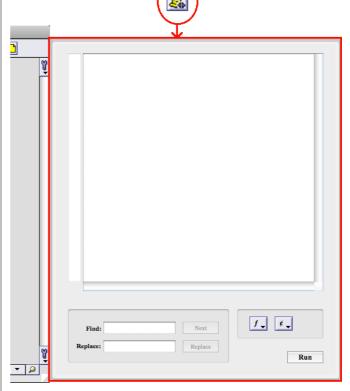


#### **Script Editor**

When you click on the *Script Editor* button, a drawer window appears at the right of the main window.

This window is made of:

- A main editfield (for storing the script),
- Two other editfields (one for searching and one for replacing text) and two associated buttons ("Next" for searching and "Replace" for replacing),
- Two help buttons (one contains the list of functions and one the list constants you can use in a script), and
- A **Run** button (to execute the script).



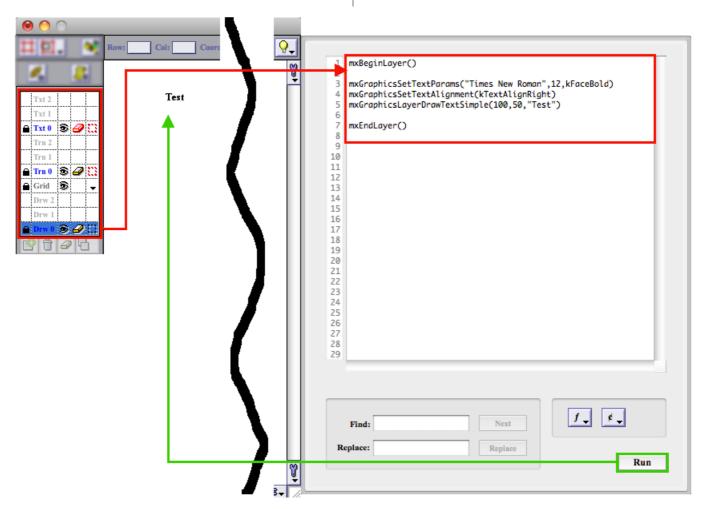
To display the script associated to a layer ('layer script'), there is nothing special to do. You select the desired layer in the **Layers Manager** and if there is an associated layer script it is automatically displayed.

In addition, there is no need to save a layer script: it is automatically saved when you select a new layer, and of course when you save your map (the other layer scripts are also saved).

At the left of the main edit field (that contains the script), there is another field that displays the line numbers. The goal is to help debugging scripts.

Typically, when there is a bug in your script, an error message is displayed along with the line number. Though the offending line is selected, you may lose it by inadvertently clicking somewhere else. In that case, thanks to this script numbering field, you can you easily find again which line had a problem without having to click again on the **Run** button.

For more information about layer script syntax, please read the **ScriptingManual.pdf** documentation.



#### **Links Editor**

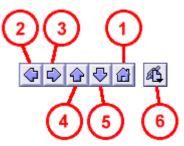
When you click on the *Links Editor* button, a drawer window appears at the right of the main window (i.e. at the right of the vertical scrollbar). The window is made of two listboxes (one for the list of files that can be linked and one for the list of links), a checkbox (which purpose will be explained layer) and eight buttons (for managing links).

The top listbox contains the list of all the maps that are located into the same folder as the map you are editing. You can make links only with these maps.

The bottom listbox contains the list of all the links you have created for this map. This listbox has two columns. The first one contains the "location" of the link and the second one contains the associated map. The "location" is either an icon (for a *zoom-out*, a *navigation* or an *external* link) or a couple which represents an object grid coordinates (for a *zoom-in* link). Also, if the link is broken (because of a missing map), the broken link icon is displayed.

Below this listbox, there is a bevel button (named **Unlink**) that allows you deleting a link. Below this button, there is a checkbox that allows you preventing (when checked) the display of link information when you move the mouse within the map grid. There is also a bevel button (named **Open Map/File**) that allows you loading directly a map without having to command-click on a main map polygon.

At last there is an area between the two listboxes called the **Interactive Map Area**:



- (1): Zoom-out (Home) Button.
- (2): West Button.
- (3): East Button.
- (4): North Button.
- (5): South Button.
- (6): External Links Button.

The **Zoom-out** button (when enabled) allows you going directly to the map associated with the **zoom-out link**. The four following buttons (when enabled) allow you going directly to the map associated with the **navigation links** (**North**, **South**, **West** and **East**). To create these links, you must drag a map onto it (see above).

At last, the sixth button allows you directly opening external files stored in a subfolder located within the map folder. To create this link, you must use the *Links Editor* (again see below).

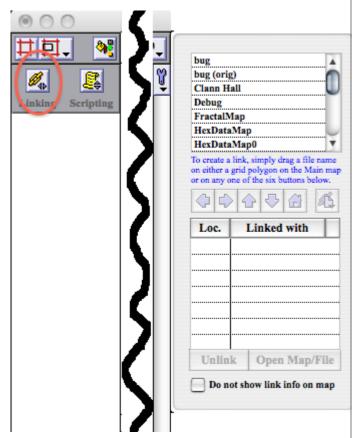


#### How to create a link?

Creating a zoom-out or navigation link. To create
this kind of link you first select a map (in the top listbox) then you drag the map onto any button of the Interactive Map Area. Once you release the mouse, a
new link entry is added into the bottom listbox.

Please note that once you have created such a link, the corresponding button (in the **Interactive Map Area**) becomes enabled.

Creating a zoom-in link. To create this kind of link you first select a map (in the top listbox) then you drag the map onto one of the main map grid polygon (i.e. a hex or a square or a lozenge). Once you release the mouse, a new link entry is added into the bottom listbox.



• Creating an external link. To create this kind of link you first select a file (in the top listbox) then you drag the file either onto one of the main map grid polygon or on the sixth Interactive Map Area button. Once you release the mouse, a new link entry is added into the bottom listbox. Please also note that when you click on that button, the list of all the external links is displayed.

Removing a link. To remove a link you must first select a link entry (in the bottom listbox). In that case, the Unlink button becomes enabled. Click into this button. A dialog appears asking if you really want to remove this entry. If you agree, the entry is permanently removed (no undo available).

Please note that if you remove a zoom-out or navigation link, the corresponding button (in the Interactive Map Area) becomes disabled.

#### **Examples**

- 1) In the left picture below, you can see that the current map has four links:
  - **Link 1**. Zoom-out button (home) is linked with map *LozengeDataMap0*. As you may see, this link is broken (which is logical as the LozengeDataMap0 map is missing in the list of maps).
  - **Link 2**. North button is linked with map *HexDataMap1*.
  - Link 3. Grid polygon (X = 0, Y = 0) is linked with map LozengeDataMap0. This link is broken too (same comment as above).
  - Link 4. Grid Polygon (X = 9, Y = 6) is linked with map HexDataMap1.
- 2) In the second picture below, you can see that the current map has three links:
  - **Link 1**. There is an external link to the text file *HexDataMap0.txt*.
  - Link 2. Grid polygon (X = 0, Y = 0) is linked with text file HexDataMap0.txt (this is an external link too).
  - **Link 3**. There is an external link to the RPGMap-Maker file *LozengeDataMap0*.





#### **Select Window**

This button allows you quickly selecting a map window.

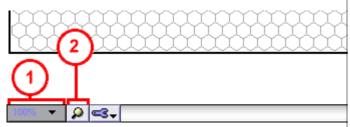
Clicking on it brings a popup menu that contains the list of all map windows you have opened. To bring one to the front, simply select its name in the popup menu.

#### **Tool Access Area**

When you click on the button with a wrench inside, a popup menu appears. It contains the list of all the available tools and allows you quickly selecting a tool without having to click inside the **Tools Pallet** drawing tools area.



## **Zoom Control Area**



- (1): **Zoom Factor** area.
- (2): Map Overview button.

#### **Zoom Factor**

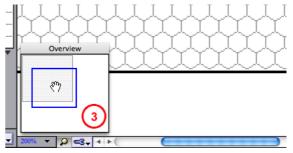
When you build a really big map (50 by 50 hexes for example), the **Main** Window may not be large enough to let view the entire map. Sometimes however, you want to see it entirely so that you can judge the map final aspect or you want to edit more precisely a peculiar aspect of the map. This is the purpose of the **Map Overview** area.

When you click on the black arrow, a popup menu appears. It allows you viewing the map at the following predefined zooming resolutions: 800%, 400%, 200%, 100% (the default), 50% and 25%. Once chosen, the resolution is displayed into the editfield located at the left of the arrow.

**Note**: For finer control over the zooming resolution, you can enter directly a value inside the editfield.

### **Map Overview**

When you click onto the small magnifying glass button (area (2) in the image above), the *Map Overview* window appears (area (3) in the image below). It displays the **Main Window** map at 20% of its size. In addition, there is a blue rectangle that shows you the visible part of the map.



The *Map Overview* window is first opened at a location situated at the bottom right corner of the main window. It remains visible until you click again into the small magnifying glass button. When you resize your map, this window is moved accordingly i.e. it put again at the bottom right corner of the main window.

It is perfectly possible to move the *Map Overview* window outside its default location. However, if you resize your map, the *Map Overview* window is placed again at the bottom right corner of the main window.

If you click into the blue rectangle, the cursor changes into a hand, meaning you can drag it over the reduced map. Without releasing the mouse, move the hand to the desired location then release the mouse. The blue rectangle is now located onto another portion of the map and the visible part of the map (in the **main** window) is changed accordingly.

# **The Texture Pallet**

This pallet allows you selecting a texture. Textures are organized into libraries.

To select a textures library, click into an entry in the list-box located at the top of the pallet.

Default libraries (those provides with the application) cannot be modified and thus have a locked padlock. User libraries can be modified and thus have an unlocked padlock (please note that present, creating or modifying user textures is not supported yet).

Some libraries come with an informative text (a comment, a copyright, etc.) In that case, it is displayed in the rectangular area located at the bottom of the pallet.

A textures can only be used with the *Grid Polygon Color Filling* and the *Color Filling* tools (see these tools for more information) in lieu of the current (fill foreground color, fill background color, fill pattern) triplet or a dropped drawing contexts.

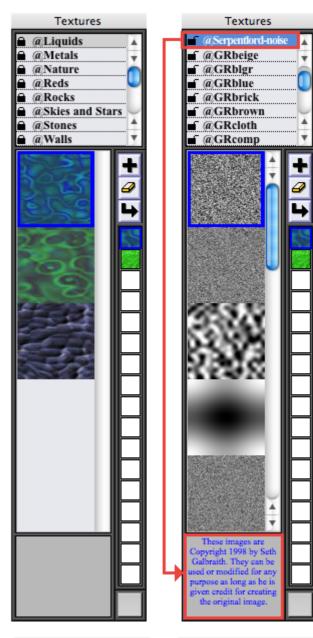
To effectively draw with a texture, see § "Color Filling" and § "Grid Polygon Color Filling" for more information.

**Note**: When the *Color Filling* tool is active, you can directly drag a texture into the *Main Window* map area.

For your convenience, you can remember and restore up to 17 textures. This allows you avoiding the hassle of having to navigate through the various textures libraries.

To manage these special textures, please use the three buttons located below the listbox right side. They allow you to:

- Remember a texture. To do this, select a texture slot and press the Plus button (see A in the first image).
- Clear a texture slot. To do this, select a texture slot and press the **Rubber** button.
- **Restore a texture**. To do this, select a texture slot and press the **Arrow** button (see **B** on the second image). In that case, the corresponding textures libraries is loaded and the libraries content is scrolled so that the chosen texture becomes visible and selected.





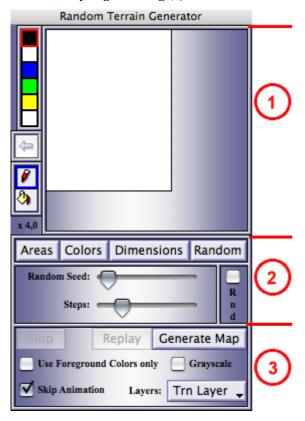


# **The Random Terrain Generator Pallet**

This tool allows you generating random terrains. Depending on the parameters you decide to use, you can generate realistic mountains with or without forests, islands, blazing or icy deserts, rocky barrens, etc.

The random terrain generator only fills the map polygonal area i.e. the area made of hexes, squares or lozenges.

This floating window is made of three areas: the first one allows you defining *terrain areas (1)*, the second one allows you adjusting the *terrain parameters (2)* and the third one allows you *generating (3)* the terrain.



### **Terrain Areas**

In order to achieve realistic terrains i.e. terrains with mountains, seas, etc, you need to define the areas in which these terrains peculiarities will grow. This is achieved by either drawing them using the provided tools or letting the program generates them automatically.

You can define five kinds of areas: black areas (mountain), white areas (snow or ice), blue areas (sea or lack), green areas (grass) and yellow areas (desert).

The size (in pixels) of the drawing area is a multiple of the size (in objects grid) of the map polygonal area. The multiple (which is displayed at the bottom right corner of this area) depends on the size of your map.

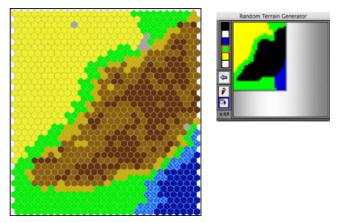
• If the number of rows and columns is not greater than 50 then the multiple is 4. For example, if you have created a map with a hexagonal grid made of 30 rows

- and 40 columns, then the drawing area will be 160-pixel wide by 120-pixel high.
- If the number of rows and columns is not greater than 100 then the multiple is 2.
- The drawing area cannot have a width or height greater than 200 pixels i.e. if your map has more than 100 rows or 100 columns only the first 100 are drawn. You can however choose where in the map the random map is generated (see § "Terrains Parameters" below).

You can even decide to draw an area that is smaller than the size of the map (again see § "Terrains Parameters" below).

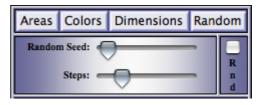
To draw an area, select a color (for example black) then use the pen tool to draw the contour and use the filling tool to make it entirely black. When you generate the map, the result should be more or less (this depends on some parameters) similar to the area you have drawn (see example below).

You can also cancel the previous drawing operation by clicking on the **Arrow** button.



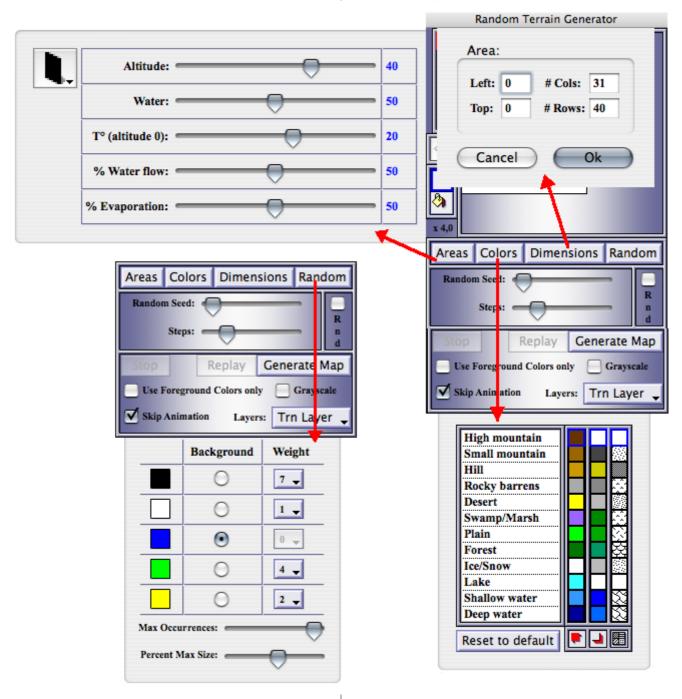
### **Terrains Parameters**

This area allows you modifying several parameters that are used for generating the terrains. Modifying these parameters is totally optional, as their default values have already been carefully chosen:



- The Areas button allows you modifying the terrains parameters (altitude, the temperature, etc.) See below for more information.
- The **Colors** button allows you modifying the terrains foreground and background colors and patterns. See below for more information.

- The **Dimensions** button allows you modifying the size and location of the generated area. See below for more information.
- The Random button allows you configuring the way the program generates randomly terrain areas. See below for more information.
- The Random Seed slider allows you modifying how the random generator is converging. Typically, the higher the value the faster the map tends to reduce the singularities (sic). The best way to understand how
- this works is to try, for a given set of parameters, different values for the random seed.
- The Steps slider allows you specifying the number of iterations the random generator will use. Depending on the parameters of the various areas, it is sometimes necessary to specify a high iteration value to obtain a good looking preview.
- The **Rnd** checkbox, if selected, tells the program to generate automatically terrain areas i.e. you do not need to build them by hands. When this button is unchecked, the program will use whatever is present on the drawing area (default behavior).



#### **Area Parameters**

This window is made of one popup menu and five sliders.

With the popup menu you select the area color (black, blue, etc.) for which you want to modify its parameters.

For the current color, you can play with up to five parameters: The **Altitude** (from -100 i.e. deep sea to +100 i.e. very high mountain), the **Water value** (from 0 i.e. extremely arid to +100 i.e. sea), the **Temperature** (from -100 to +100), the **Percentage of Water Flow** i.e. the dribbling factor (from 0 to 100) and the **Percentage of Evaporation** (from 0 to 100).

There are some dependencies between the various parameters:

- Altitude and Water. If you select a negative altitude (i.e. a depth), the Water value is automatically set to 100 and you can no longer modify it. Also, the temperature cannot drop below zero (this generator assumes that sea never freezes).
- Altitude and temperature. The final temperature value of each pixel of the area is adjusted by a coefficient that depends on the altitude (i.e. the higher the altitude, the lower the temperature and the deeper the depth, the lower the temperature [but remember, never below zero]). This adjustment is not directly visible but you must take it into account when selecting the other parameters.
- Temperature and Water Flow and Evaporation. The final Percentage of Water Flow and Percentage of Evaporation is adjusted by a multiplier that depends on the temperature (the higher the temperature, the higher the multiplier). This adjustment is not directly visible.

#### **Terrains Colors**

This window is made of a list of terrain types. For each kind of terrains type (at present there are twelve terrain types) you can specify the filling foreground color, the filling background color and the filling pattern (i.e. the filling drawing context) that will be used when generating the terrain. These twelve drawing contexts are initialized with values that give good rendering result most of the time.

However, if for example, you need to generate of map with an alien look, it is totally possible to change these contexts. To do so, simply click on a color square to bring a **color pallet** dialog that allows you choosing a new color, or on a pattern square to bring a **pattern pallet** dialog that allows you choosing a new pattern.

As usual, pressing the *Escape* key will dismiss any dialog without modifying the existing color or pattern value.

#### **Terrains Dimensions**

Within this dialog you can specify where on the *Main* map you want to generate the random terrain (top, left position) and the size of the generated area (#cols, #rows).

Because you cannot generate a random terrain that has more than 100 rows or 100 columns, this dialog allows you building a greater area by specify different offsets in the map.

#### **Random Parameters**

This window allows you specifying how the terrain areas are generated (when the **Rnd** checkbox is selected). Basically, you can change:

- 1) The **background color** i.e. the color that is used to fill the entire drawing area. For example, if you want to generate a random terrain with a lot of water, then you select the blue color as the background color. To change the background color, then simply click on the desired radio button.
- (2) The **weight of the other colors** i.e. the importance of a color relative to the other colors. For each color you can specify a weight that ranges from 1 to 10. A 1 means the color will be selected very rarely and a 10 means the color will be selected very often.
- (3) The **maximum number of occurrences** i.e. the maximum number of terrain areas that can be potentially drawn
- (4) The **percentage of the maximum size**. This value is used to compute the potential size of each generated terrain area. The bigger this value the bigger the areas.

### **Terrain Generation**

Once you have drawn your areas or selected the **Rnd** checkbox, press the **Generate Map** button to see the result on the *Main map*.

If the **Skip Animation** checkbox is selected (the default), only the random terrain final iteration (step) is drawn. Otherwise, the random terrain is drawn each time an iteration ends. That way you can see the map generation process.

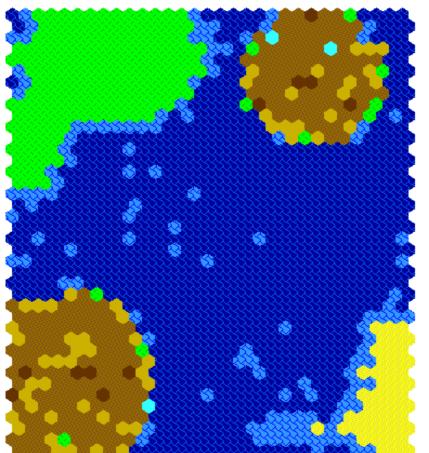
If you are not satisfied with the way the preview is evolving, you can stop the process by pressing the **Stop** button.

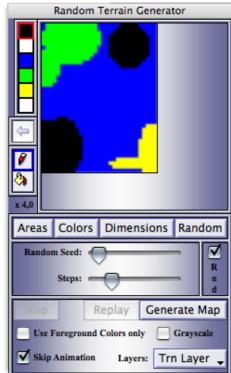
If you want to generate a map without patterns, use the Use Foreground Color Only checkbox.

If you wan to generate a map using grayscale variants of the terrain colors use the **Grayscale** checkbox. This is faster than generating the map in color and then applying a grayscale filter (in the **Effects** menu).

The **Replay** button allows you regenerating the map. This is useful when you want to redraw the same map but with a different color scheme.

At last, you can choose onto which layer you want the map to be generated. To do so, use the **popup menu** located at the bottom right of the pallet. By default, this is the *terrain layer*.





# **The Random Maze Generator Pallet**

This tool allows you generating random mazes, caverns and dungeons (well, at present only the rooms are generated). Depending on the parameters you decide to use, you can generate nearly symmetrical mazes or caverns or very winding ones. In the following paragraphs, we'll call "maze" either a maze or a cavern or a dungeon.

The random "maze" generator only fills the map polygonal area i.e. the area made of hexes, squares or lozenges. You cannot generate "mazes" of any size up to 400 by 400 polygons.

This floating window is made of two areas: the first one allows you defining the "maze" *parameters* (1), and the second one allows you *generating* (2) the "maze".

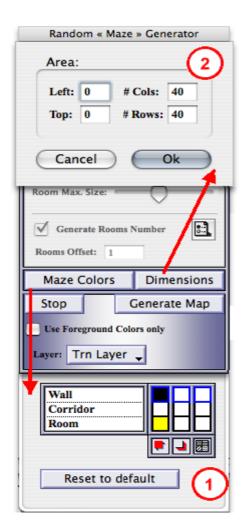


# "Maze" parameters

This area allows you setting several parameters that are used for generating the "maze".

- Kind. You can choose to generate either a simple maze, or a cavern, or a dungeon. A cavern is essentially a maze but with large portions of inaccessible areas. A dungeon is a cavern with rooms.
- Cardinal Directions. This parameter allows you specifying which cardinal directions are allowed. With 4 directions, the algorithm only goes to the North, South, East and West directions. This produces mazes or caverns that are relatively symmetrical and is best suited for square grids. With 6 directions, the algorithm goes to the North, South, East, West, Northwest and Southwest directions. This produces mazes or

- caverns that really looks random and is best suited for generating caverns on hex grids.
- **Denseness**. This parameter allows you specifying the size of the inaccessible areas. The higher this value, the greater the areas.
- Random Seed. This parameter (which is only available for *Cavern* and *Dungeon*) allows you modifying how the random generator is converging. Typically, the higher the value the greater the map winding appearance. The best way to understand how this works is to try, for a given set of parameters, different values for the random seed.
- Room Min./Max. Size. These two parameters (which are only available for *Dungeon*) allow you specifying the minimum and maximum size of the generated rooms.
- Generate Rooms Number. If selected, this option tells the program to draw the room number at about the top-left corner of each room. The default format is *Times New Roman, 12 pt, Red, Bold* but this can be changed by clicking into the small icon at the right of the checkbox. In that case, a *Text Information* dialog appears allowing you changing one, two or several aspects of the drawing format.
- Rooms Offset. This editfield allows you specifying the starting value for the numbering of rooms. This is useful when for example you are generating more than one maze on the same map and you want a uniform rooms numbering.
- The Maze Colors button allows you modifying the "maze" foreground and background colors and patterns.
- The **Dimensions** button allows you modifying the size and location of the generated area.



#### "Maze" Colors

This area is made of a list of maze types. For each kind of terrains type (at present there are three maze types) you can specify the filling foreground color, the filling background color and the filling pattern (i.e. the filling drawing context) that will be used when generating the "maze". These three drawing contexts are initialized with values that give good rendering results.

However, if for example, you need to generate of "maze" with an alien look, it is totally possible to change these contexts. To do so, simply click on a color square to bring a **color pallet** dialog that allows you choosing a new color, or on a pattern square to bring a **pattern pallet** dialog that allows you choosing a new pattern.

As usual, pressing the *Escape* key will dismiss any dialog without modifying the existing color or pattern value.

#### "Maze" Dimensions

With this dialog you can specify where on the *Main* map you want to generate the random terrain (top, left position) and the size of the generated area (#cols, #rows).

Because you cannot generate a random terrain that has more than 100 rows or 100 columns, this dialog allows

you building a greater area by specify different offsets in the map.

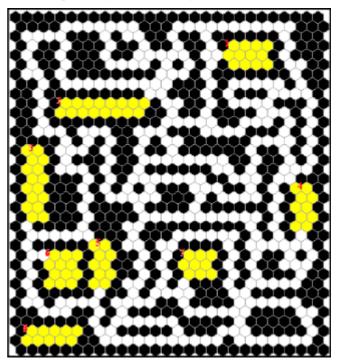
# "Maze" Generation

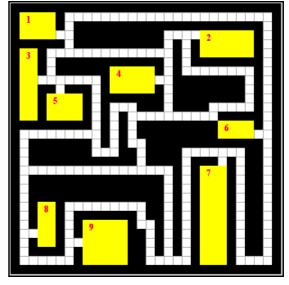
By pressing the **Generate Map** button, the map polygon area is filled with polygons which colors and patterns are specified in the *Maze Colors* area.

If you want to generate a map without patterns simply check the Use Foreground Color Only checkbox.

At last, you can choose onto which layer you want the map to be generated. To do so, use the **popup menu** located at the bottom of the pallet. By default, this is the *terrain layer*.

Two examples of generated "dungeons" are shown below:



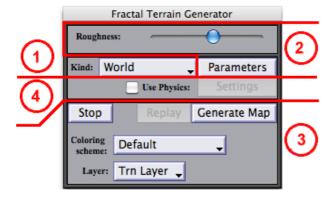


# **The Fractal Terrain Generator Pallet**

This tool allows you generating realistic terrains.

This floating window is made of two areas:

- The first one allows you selecting the terrain kind (1), adjusting the fractal terrain parameters (2) and using physical parameters (4),
- The second one allows you *generating (3)* the fractal terrain.



## **Terrain Kind**

You can generate three kinds of terrains: wold, archipelago and island(s). To select the desired kind, simply click on the button. When a popup menu appears, navigate between the kind and select the one you are interested in.



### **Fractal Terrain Parameters**

Once a kind have been selected, you can elect to modify its parameters. Modifying them is totally optional, as their default values have already been carefully chosen:



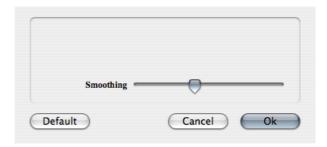
- The Roughness slider allows you controlling the perturbation of the fractal terrain surface. Moving the slider to the left leads to a calm landscape with a few mountains/valleys while moving the slider to the right leads to a more chaotic landscape.
- The Parameters button brings a dialog that allows you controlling parameters that are specific to a terrain kind.

#### **World kind**

• The **Smoothing** slider allows you controlling the jaggedness of the fractal terrain surface.

Moving the slider to the left leads to a landscape with a lot of rough edges between the different kind of terrains while moving the slider to the right leads to a landscape with soft edges.

The **Default** button allows you restoring the smoothness default value.

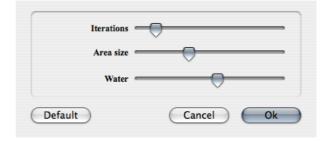


### **Archipelago kind**

The Iteration slider allows you controlling the algorithm number of passes.

Moving the slider to the left leads to a landscape with a few islands while moving the slider to the right leads to a landscape with a lot of islands.

Note: this algorithm is very slow compared to the other twos. So, when moving the slider to the right, be sure to have a powerful computer if you do not want to wait for too long.



• The **Area size** slider allows you controlling the size of the islands.

Moving the slider to the left leads to a landscape with a lot of small islands while moving the slider to the right leads to a landscape with a lot of lands and very few water areas.

 The Water slider allows you controlling the amount of water.

Moving the slider to the left leads to a landscape with very little water while moving the slider to the right leads to a landscape with a lot of water.

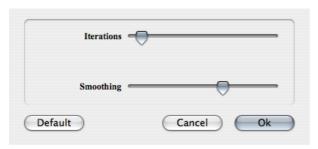
The **Default** button allows you restoring the three parameters to their default values.

### Island(s) kind

The Iteration slider allows you controlling the algorithm number of passes.

Moving the slider to the left leads to a landscape with small islands while moving the slider to the right leads to a landscape with big islands.

 The Smoothing slider allows you controlling the jaggedness of the fractal terrain surface (see World kind for more information).



The **Default** button allows you restoring the two parameters to their default values.

### **Fractal Terrain Generation**

By pressing the **Generate Map** button the main map is entirely filled with a fractal terrain.

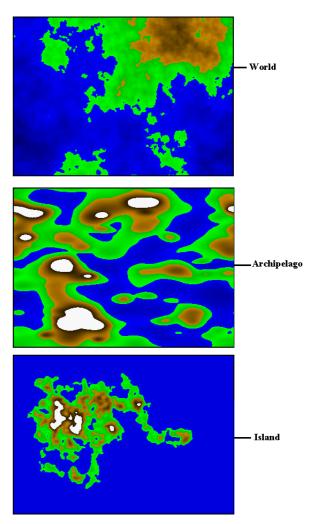
There are four coloring schemes (see examples on next page):

- Default. The fractal terrain is generated in color (various shades of brown for mountains, various shades of green for lands, various shades of blue for waters, and white for ice).
- **Grayscale**. The fractal terrain is generated using grayscale variants of the above colors. This is faster than generating the map in color and then applying a "**Grayscale**" filter (in the **Effects** menu).
- **Texture (mode 1)**. The fractal terrain is generated using a one color gradient. This is faster than generating the map in color and then applying a "**Color Filter**" filter (in the **Effects** menu).
- Texture (mode 2). The fractal terrain is generated using a one color gradient. This is faster than generating the map in color and then applying a "Color Mask" filter (in the Effects menu).

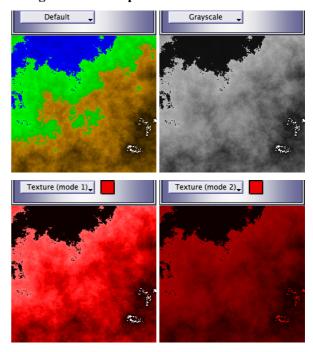
The **Replay** button allows you regenerating the map. This is useful when you want to redraw the same map but with a different coloring scheme. Each time you change a terrain parameter, this button becomes disabled.

Please note that if you are not satisfied with the way the drawing is evolving, you can always stop the process by pressing the **Stop** button.

At last, you can choose onto which layer you want the map to be generated. To do so, use the **popup menu** located at the bottom of the pallet. By default, this is the *terrain layer*.

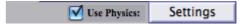


#### **Coloring scheme examples:**

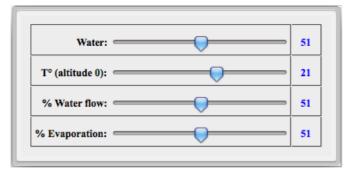


# **Using physics**

Clicking on the "physics" checkbox enables the "Settings" button.



Clicking on the "Setting" button brings a drawer window that has the following appearance:



This window is made of five sliders that allows you playing with four physical parameters:

- Water value (from 0 i.e. extremely arid to +100 deluge),
- Temperature (from -100 to +100),
- **Percentage of Water Flow** i.e. the dribbling factor (from 0 to 100),
- **Percentage of Evaporation** (from 0 to 100).

There are some dependencies between the various parameters:

- Altitude and temperature. The final temperature value of each pixel of the map is adjusted by a coefficient that depends on the altitude (we are using the standard ISA atmospheric model in which temperature decreases roughly by 6.5 °C every km of height¹). This adjustment is not directly visible but you must take it into account when selecting the other parameters. In addition, water temperature never drops below zero.
- Temperature, Water Flow and Evaporation. The final Percentage of Water Flow and Percentage of Evaporation is adjusted by a multiplier that depends on the temperature (the higher the temperature, the higher the multiplier). This adjustment is not directly visible.

In addition, here are a few hints:

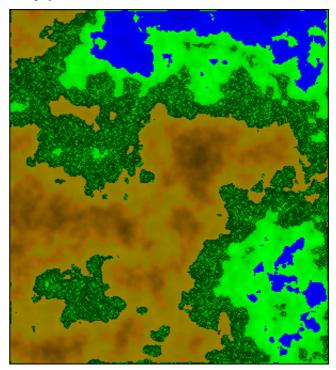
- To build *forests*, you need a lot of Water and a high Water Flow.
- To build *deserts* and rocky barrens, you must not use Water.
- To build *icy or snowy regions*, you need a negative Temperature and some Water.
- To build *swamp marches*, you need a lot of Water with very low Water Flow and Evaporation values.

The two images on next column show you the differences between a map generated with and without physics.

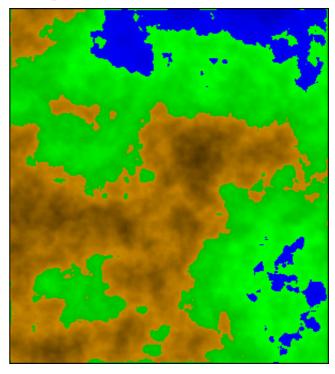
We have use physics the following parameters (first hint i.e. forest generation):



With physics:



Without physics:



<sup>&</sup>lt;sup>1</sup> In fact, this is only true up to an altitude of 11 km (troposphere). This is ok, because the maps that are generated are normalized so that they never have a height greater than 10 km.

# **Drag and Drop**

There are two kinds of drag and drop: *internal drag and drop* that only works inside *Map windows* and *external drag and drop* that works between « RPGMapMaker » and another application (the Finder or whatever program capable of drag and drop). As these two operations behave differently, we have named them differently.

# **Internal Drag and Drop**

Internal drop is always the result of an internal drag. To start an internal drag, move the mouse inside a selection (i.e. the pulsing rectangle). While inside the selection, the mouse cursor turns into a hand. You must then press the mouse to start the dragging operation.

If the Selection Area of Effect is one (respectively two or three) layer(s), one (respectively two or three) grayed-frame rectangle(s) appear(s). The variable number of rectangles is a convenient mean to remind you how many layers will be involved in the dragging operation.

Now, without releasing the mouse button, move the hand cursor. The rectangle(s) follow(s) the mouse. Once you have moved the selection to its required location (either the same window i.e. the *Main Window* or another *Map Window*, release the mouse button. That's it. If you want to duplicate the selection instead of dragging it, simply press the *option* key before you click into the selection.

Please note that *option-drag* is not allowed within the *Text* layer and lines with dimensions are not correctly move between windows (they no longer refresh themselves when the polygon dimension changes).

# **External Drag**

To make an external drag, drag the selection outside the main window. If the target is the finder, a file is created that contains the portion of the map you just dragged. If the target is another application (such as GraphicConverter), the portion of the map appears inside its active window.

Please note that when performing an external drag, the selection always includes the map seven layers.

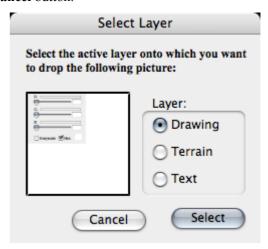
# **External Drop**

An external drop is realized simply by dropping an image or a file inside the main window. In that case, the following dialog appears:

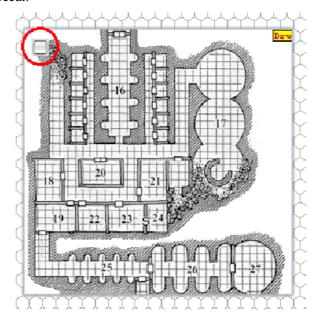
On its left part, the entire image or file is displayed. If it is greater than the frame, it is scale down so that it fits entirely into it. However, the image proportions are respected.

On the right part of the dialog, you can see three radio buttons (one for each active layer). If a layer is not visible, the

corresponding radio button is disabled. Once you have chosen the desired layer, click on the **Select** button. Of course, you can cancel the drop operation by clicking on the **Cancel** button.



Assuming you have accepted the drop, the picture appears inside the *Main Window* map area surrounded by a blue rectangle (see image below). Also, in the top-right corner, you can see the name of the layer on which the drop will occur.



You can then perform the following operations on the *dropped picture*:

- Move. To move the picture, move the mouse inside the blue rectangle. While inside the selection, the mouse cursor turns into a hand. You must then press the mouse to start moving the picture. Now, without releasing the mouse button, move the hand cursor. The blue rectangle follows the mouse. Once you have moved the picture to its required location, release the mouse button.
- You can also use the arrow keys to move more precisely the picture (please note that if the Ter-

rain Grid Align checkbox is selected, the move is aligned on the terrain grid boundaries).

- **Expand or Shrink**. By moving the cursor near the border of the dropped picture, the cursor turns into various arrow shapes. You can then enlarge or reduce the picture.
- Toggle Transparency State. By default, the pasted picture is transparent. However, by clicking into the *checkbox* in the top left corner you can re-

move the transparency. Of course, by pressing again the *checkbox* key, you can make the pasted picture transparent again.

Once you are satisfied with the location and size of the *dropped picture*, you definitively insert the picture into the specified layer when you press the *enter* key or click inside the main window.

Please note that you can dismiss the *dropped picture* by pressing the *escape* key.

# **Models**

## What is a model?

Suppose you need to build several maps with similar information. For example, in addition to the grid, each map needs some permanent information such as: Area Name, Climate, Population Level, an encounter table framework, etc. (see image below).

Area Name:	Local Encounter Table
Kingdom/Region:	Roll Encounter Roll Encounter
	02 12
Climate:	03 13
Terrain: Seasons:	04 14
ocasans.	06 16
Races:	07 17
Cultures:	08 18
Technology:	9 19
Government Type: Social Alignment:	10 20
over magazine ne	
Population Level:	Col. T. IIII
Subsistence System:	Cities, Towns, and Villages
Resources/Trade:	Name Pop. Blocks Notes
Important NPCs/Contacts:	
Name Position Level/Race/Class Notes	
THE PERSON NAMED IN COLUMN TWO	
	Lair and Sites of Interest
	Description Notes
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Of course, you can create one map with the correct aspect and then use the "Save As" menu command to duplicate the map. But in that case, you'll have to erase the previous information before entering new ones (and make sure you do not erase some permanent information).

If you have used one text layer to write the permanent information and the other text layer to store the variable information, this is not a complicated task: you simply need to erase the other text layer. However, this means you have lost the ability to use one layer to store information that are "private" (for example "DM only" information).

A model is simply a way to automate this process: you define the framework and when you create a map based on this model, all the permanent information are already drawn. Please note that all these permanent information are drawn on the *Grid layer*. As this layer is

not editable, this means there is no risk you erase inadvertently these data (unless you modify the model of course).

A model utilizes custom functions to "script" the automated creation of a map box with a grid and margins, "text" sections with preprinted text, graphical enhancements such as lines, "legend" box, etc. and any shape your imagination and scripting skill can produce.

#### How to use?

To create a map based on a model, simply use the "Create from Model..." or "Create from User Model..." sub-menu items in the "File" menu (see MenusManual.pdf documentation for more information). This will bring a special dialog that displays a list of models. By clicking on a model, you can see a preview of the *Grid* layer. Then select the model that is the most appropriate for your needs.

Please note that as you can totally change the contents of a model script, this is not a terrible mistake if you picked up the "wrong" model. To modify a model script use the "Map Information" menu item in the "Edit" menu). See also the ScriptingManual.pdf document for information on how to write script.

If you plan to reuse this model, you may opt to save it back as a model (see "Save as User Model..." sub-menu items in the "File" menu). Otherwise, the modifications you have made to the map script will be available only to the current map.